

حمل الآن

مجانا وحصريا

# امتحانات رقم (1)

## الترم الثاني



## Model (1)

20  
Marks

### 1 (A) Complete the following sentence using the words between brackets:

- Mobile phone batteries stores ..... energy. (chemical - electrical)

### (B) What happens when ...?

1 You approach your hand near a lighted electric bulb.

.....

2 The dead remains of sea creatures are pressed and exposed to extreme heat and pressure for millions of years.

.....

3 Wind blows weakly in a desert.

.....

4 A flood occurs near a farmland.

.....

### 2 (A) Put (✓) or (X):

- Canyons are deep valleys that have steep sides. ( )

### (B) Answer the following questions:

1 Charcoal is considered a biofuel. Why?

.....

2 What are the environmental effects when rain washes chemical pesticides off farmland?

.....

.....

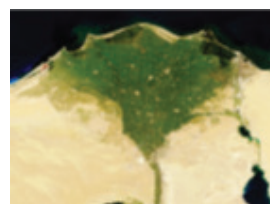
3 Weather is different from weathering. Explain.

.....

.....

4 What are the processes that are responsible for the formation of the opposite land form?

.....



### 3 (A) Write the scientific term:

1 A force that pulls down the broken rocks along the mountainsides. (.....)

2 The type of weathering where the structure of rocks is changed. (.....)

**(B) Answer the following questions:**

1 Identify the input and the output energies of a solar heater.

.....

2 Mention the importance of modern wind turbines.

.....

3 Mention two factors which determine the shape of a formed valley.

.....

.....

**4 (A) Correct the underlined words:**

1 Modern wind turbines have shorter blades than the old windmills. (.....)

2 Sand dunes are constantly stable landforms. (.....)

**(B) Give a reason for:**

1 Wood is considered as fuel.

.....

2 Erosion and weathering processes are always connected.

.....

3 Breaking down of rocks by water is considered mechanical weathering.

.....

## Model (2)

20  
Marks

### 1 (A) Put (✓) or (X):

- Oil and coal are produced from the decomposition of the same remains of dead organisms.

( )

### (B) What happens when ...?

1 The using of fossil fuel is reduced.

.....

2 Large amounts of silt are deposited along the banks of Nile Delta.

.....

3 Oxygen in air reacts with iron in rocks.

.....

.....

4 Sea waves hit sand on the beaches.

.....

### 2 (A) Complete the following sentence using the words between brackets:

- Buring of fuel produces ..... energy. (chemical - thermal)

### (B) Give a reason for:

1 Natural gas is a nonrenewable energy resource.

.....

2 We must conserve using of fossil fuel.

.....

.....

3 Some small canyons have plants and trees on their sides.

.....

4 Sand dunes are not fixed in their places, but they are always moving.

.....

### 3 (A) Mention the type of weathering:

1 Breaking down of rocks by the effect of acid rain.

.....

2 Breaking down of rocks due to the change in temperature and cycle of melting and freezing of water.

.....



**(B) Answer the following questions:**

- 1 Write the energy chain that represents the energy conversions that occur when an electric lamp is turned on.

.....

- 2 Mention the importance of water turbines.

.....

- 3 Explain how Nile delta is formed.

.....

.....

**4 (A) Choose the correct answer:**

- 1 The ..... on Mars rover curiosity convert solar energy into ..... which is used to recharge the batteries.

a) solar panels - electrical

b) batteries - electrical

c) solar panels – sound

d) batteries - sound

- 2 Dissolving of minerals forming rocks then combine again forming new rocks is an example of .....

a) mechanical weathering

b) erosion by wind

c) deposition in rivers

d) chemical weathering

**(B) Answer the following questions:**

- 1 Explain how global warming phenomenon occurs.

.....

.....

- 2 List some ways to conserve fossil fuel.

.....

.....

- 3 Sand dunes are formed as a result of several process, what is the sequence for their formation?

.....

## Model (3)

20  
Marks

### 1 (A) Correct the underlined word:

- Most energy chains start with the Moon.

(.....)

### (B) Give a reason for:

1 Smog has harmful effect on the human health.

.....  
.....

2 Plants of wetlands and their roots help in the formation of a delta.

.....

3 Iron in rocks may rust.

.....

4 The formation of drippings in the limestone caves is considered chemical weathering.

.....  
.....

### 2 (A) Cross out the odd word:

- Charcoal - Gasoline - Liquid fuel from corn - Wood.

(.....)

### (B) Answer the following questions:

1 Generators are important in the electric power stations. Mention their importance.

.....

2 Mention the effect of acid rains on the environment.

.....  
.....  
.....

3 What are the similarities between valleys and canyons?

.....  
.....

4 What are the main factors that help in the erosion of weathered rocks?

.....

### 3 (A) Put (✓) or (X):

1 The output energy of an operating solar panel is light energy.

( )

2 Wind and flowing water that carry sand are from the factors of mechanical weathering.

( )

**(B) Mention the role of ...:**

- 1 Concave mirrors in cooking food.

.....

.....

- 2 Lichens in chemical weathering.

.....

.....

- 3 Wind deposition.

.....

**4 (A) Complete the following sentences using the words between brackets:**

- 1 Hydroelectric energy is generated by ..... (wind - dams)

- 2 The ..... pulls down the weathered rocks along the mountainsides.  
(Earth's gravity - wind )

**(B) Compare between each of the following:**

1

P.O.C	Oil	Water
Type of energy resources	.....	.....

2

P.O.C	Electric bell	Washing machine
Input	.....	.....
Output	.....	.....

3

P.O.C	Canyons	Valleys
Shape	..... .....	..... .....

## Model (4)

20  
Marks

### 1 (A) Complete the following sentence using the words between brackets:

- The sound energy produced from an operating washing machine is considered a ..... energy. (waste - useful)

### (B) What happens when ...?

- 1 Carbon dioxide reacts with water vapor in the air.

.....

- 2 Shaking a hand bell. (Regarding the energy conversion)

.....

- 3 Plant roots grow in the cracks of rocks.

.....

- 4 A rock blocks the path of flying sand in a desert.

.....

### 2 (A) Write the scientific term:

- A path that shows the flow of energy from its source to the device. (.....)

### (B) Give a reason for:

- 1 The mobile phone gets warm when being used for long time.

.....

.....

- 2 Hydroelectric dams are built on rivers.

.....

.....

- 3 People must not build houses very close to rivers.

.....

.....

- 4 Chemical weathering has stronger effect than mechanical weathering on rocks.

.....

.....

### 3 (A) Put (✓) or (X):

- 1 Powerplants that use biofuel to generate electricity cause air pollution. ( )

- 2 Pulling of sand from the seashores happens due to the erosion process. ( )

**(B) Define each of the following:**

1 Law of conservation of energy.

.....

2 Deposition.

.....

3 Canyons.

.....

**4 (A) Cross out the odd word:**

1 Solar heater – Hand mixer – Solar panel – Greenhouse. (.....)

2 Plant roots – Oxygen – Temperature changes – wind. (.....)

**(B) Answer the following questions:**

1 Although trees are a renewable source of energy, we must limit their use.

Explain.

.....

.....

2 What is the effect of smog from cars in big cities on the human health?

.....

.....

3 How do plants that grow in wetlands found in deltas increase deposition process?

.....

.....

## Model (5)

20  
Marks

### 1 (A) Write the scientific term:

- A phenomenon where the Earth's temperature increases slowly due to the trapping of heat on Earth. (Global warming)

### (B) What happens when ... ?

- 1 The wind rotates the blades of wind turbines.  
.....
- 2 The dead remains of plant are pressed and exposed to extreme heat and pressure for millions of years.  
.....
- 3 Wind that is carrying sand particles hits a big rock.  
.....
- 4 A river erodes the sediments of a mountain over a long period of time.  
.....

### 2 (A) Choose the correct answer:

- All forms of fossil fuel are formed ..... .
- |                              |                              |
|------------------------------|------------------------------|
| a) above the Earth's surface | b) under the Earth's surface |
| c) above the water surface   | d) in the air around us      |

### (B) Give a reason for:

- 1 You feel warm when you rub your hands together.  
.....
- 2 Greenhouses have an important role.  
.....
- 3 Acid rain has harmful effects on different living organisms.  
.....
- 4 Sand dunes are formed in some places and not formed in others.  
.....  
.....

### 3 (A) Complete the following sentences using the words between brackets:

- 1 ..... is a biofuel. (Charcoal - Coal)
- 2 Sand dunes in Rub' Al Khali in Arabian Peninsula are formed by ..... process. (weathering - deposition)

**(B) Answer the following questions:**

1 Write the energy chain of an operated wind turbine, starting from the Sun.

.....

2 Mention the action of rain when it falls on the soil of farms that locate beside downhill.

.....

3 Compare between ... .

P.O.C	Oil	Coal
Living organism each one is formed from	..... .....	..... .....

**4 (A) Put (✓) or (X):**

1 Renewable energy resources are replaced faster than they are used. ( )

2 Canyons have the same texture, and rock colors. ( )

**(B) Look at the opposite figure, then answer:**

1 What is the opposite factor?

.....

2 What is the effect of this factor on rocks?

.....

3 Does the change happen to rocks quickly or slowly?

.....



## Model (1)

20  
Marks

### 1 (A) Complete the following sentence using the words between brackets:

- Mobile phone batteries stores ..... energy. (**chemical** - electrical)

### (B) What happens when ...?

1 You approach your hand near a lighted electric bulb.

- **You will feel heat comes from the light bulb.**

2 The dead remains of sea creatures are pressed and exposed to extreme heat and pressure for millions of years.

- **Oil and natural gas are formed.**

3 Wind blows weakly in a desert.

- **Sand will move few meters away.**

4 A flood occurs near a farmland.

- **Sediments and rocks transfer very fast (rapidly) from one place to another.**

### 2 (A) Put (✓) or (X):

- Canyons are deep valleys that have steep sides. (✓)

### (B) Answer the following questions:

1 Charcoal is considered a biofuel. Why?

- **Because it is a fuel that is made from living organisms that can be planted.**

2 What are the environmental effects when rain washes chemical pesticides off farmland?

- **The chemical pesticides cause soil pollution and when the rain falls, they can be carried by water into canals leading to water pollution.**

3 Weather is different from weathering. Explain.

- **Weather is the condition of atmosphere at a specific time and place, while weathering is the breaking down of rocks on the Earth's surface into smaller pieces.**

4 What are the processes that are responsible for the formation of the opposite land form?

- **Erosion and deposition processes.**



### 3 (A) Write the scientific term:

1 A force that pulls down the broken rocks along the mountainsides. (**Gravity**)

2 The type of weathering where the structure of rocks is changed. (**Chemical weathering**)



**(B) Answer the following questions:**

- 1 Identify the input and the output energies of a solar heater.  
– **Input energy is solar energy, while the output energy is thermal energy.**
- 2 Mention the importance of modern wind turbines.  
– **They convert kinetic energy of wind into electrical energy.**
- 3 Mention two factors which determine the shape of a formed valley.  
– **The speed of the river.**                      – **The size and age of the river.**

**4 (A) Correct the underlined words:**

- 1 Modern wind turbines have shorter blades than the old windmills. (longer)
- 2 Sand dunes are constantly stable landforms. (moving)

**(B) Give a reason for:**

- 1 Wood is considered as fuel.  
– **Because it produces thermal energy when it is burned.**
- 2 Erosion and weathering processes are always connected.  
– **Because the eroded rocks must settle down on a surface after they are eroded.**
- 3 Breaking down of rocks by water is considered mechanical weathering.  
– **Because the rocks are broken without any change in their structure.**

## Model (2)

20  
Marks

### 1 (A) Put (✓) or (X):

- Oil and coal are produced from the decomposition of the same remains of dead organisms.

(X)

### (B) What happens when ...?

1 The using of fossil fuel is reduced.

- **Burning of fossil fuel decreases, the amount of carbon dioxide and other pollutants decreases, so acid rain and global warming decrease.**

2 Large amounts of silt are deposited along the banks of Nile Delta.

- **The soil of the Nile Delta will be fertile.**

3 Oxygen in air reacts with iron in rocks.

- **A red-colored rust is formed, causing chemical weathering of rocks that weakens them and breaks them down easily.**

4 Sea waves hit sand on the beaches.

- **The sea waves pull sand away from the beaches leading to beaches erosion.**

### 2 (A) Complete the following sentence using the words between brackets:

- Buring of fuel produces ..... energy.

(chemical - **thermal**)

### (B) Give a reason for:

1 Natural gas is a nonrenewable energy resource.

- **Because it is used faster than it can be replaced.**

2 We must conserve using of fossil fuel.

- **Because fossil fuels are formed over millions of years, so they can't be replaced fast as they are used.**

3 Some small canyons have plants and trees on their sides.

- **Because they may have been formed by water streams.**

4 Sand dunes are not fixed in their places, but they are always moving.

- **Because the force of wind always moves sand from one place to another.**

### 3 (A) Mention the type of weathering:

1 Breaking down of rocks by the effect of acid rain.

- **Chemical weathering.**

2 Breaking down of rocks due to the change in temperature and cycle of melting and freezing of water.

- **Mechanical weathering.**

**(B) Answer the following questions:**

- 1 Write the energy chain that represents the energy conversions that occur when an electric lamp is turned on.

– **Electrical energy → Light energy + Thermal energy.**

- 2 Mention the importance of water turbines.

– **They convert the kinetic energy of water to generate electricity.**

- 3 Explain how Nile delta is formed.

– **The Nile River carries sediments, and when the river meets the sea, the sediments are deposited forming the Nile delta.**

**4 (A) Choose the correct answer:**

- 1 The ..... on Mars rover curiosity convert solar energy into ..... which is used to recharge the batteries.

a) **solar panels - electrical**

b) batteries - electrical

c) solar panels – sound

d) batteries - sound

- 2 Dissolving of minerals forming rocks then combine again forming new rocks is an example of .....

a) mechanical weathering

b) erosion by wind

c) deposition in rivers

**d) chemical weathering**

**(B) Answer the following questions:**

- 1 Explain how global warming phenomenon occurs.

– **When the amount of carbon dioxide gas in the atmosphere increases, it traps heat on the Earth's surface leading to a slow rise in the Earth's temperature.**

- 2 List some ways to conserve fossil fuel.

– **Walking or using bicycles instead of driving cars.**

– **Turn off light and unplug unused devices.**

– **Use renewable energy resources instead of fossil fuel.**

- 3 Sand dunes are formed as a result of several process, what is the sequence for their formation?

– **Weathering → Erosion → Deposition**

## Model (3)

20  
Marks

### 1 (A) Correct the underlined word:

- Most energy chains start with the Moon.

(Sun)

### (B) Give a reason for:

1 Smog has harmful effect on the human health.

- **Because it causes the irritation of the human's eyes and lungs, and the damage of the respiratory system tissues.**

2 Plants of wetlands and their roots help in the formation of a delta.

- **Because they slow down the river water, and the plants roots help in trapping the sediments that increase the deposition process.**

3 Iron in rocks may rust.

- **Due to the reaction of oxygen with iron of some rocks forming red-colored rust.**

4 The formation of drippings in the limestone caves is considered chemical weathering.

- **Because when water dissolves the minerals in the rocks, they combine again forming new materials with new structure.**

### 2 (A) Cross out the odd word:

- Charcoal - Gasoline - Liquid fuel from corn - Wood.

(Gasoline)

### (B) Answer the following questions:

1 Generators are important in the electric power stations. Mention their importance.

- **They change the kinetic energy into electrical energy.**

2 Mention the effect of acid rains on the environment.

- **The death of trees.**

- **The change in the chemical nature of lakes leading to the death of fish.**

- **The change in the chemical nature of soil.**

3 What are the similarities between valleys and canyons?

- **Both are formed by rivers or streams, and they often have rivers or streams at their bottoms.**

4 What are the main factors that help in the erosion of weathered rocks?

- **Water, wind, and gravity.**

### 3 (A) Put (✓) or (X):

1 The output energy of an operating solar panel is light energy.

(X)

2 Wind and flowing water that carry sand are from the factors of mechanical weathering.

(✓)

**(B) Mention the role of ...:**

1 Concave mirrors in cooking food.

– They convert the solar energy into thermal energy, as they collect and focus the sunlight to heat metal pots and cook food inside.

2 Lichens in chemical weathering.

– They produce acids on rocks that dissolve minerals found in these rocks and break them down.

3 Wind deposition.

– When the wind is weak, small sand dunes are formed, while strong wind forms large sand dunes.

**4 (A) Complete the following sentences using the words between brackets:**

1 Hydroelectric energy is generated by .....

(wind - **dams**)

2 The ..... pulls down the weathered rocks along the mountainsides.

(**Earth's gravity** - wind )

**(B) Compare between each of the following:**

1

P.O.C	Oil	Water
Type of energy resources	Nonrenewable energy resource.	Renewable energy resource.

2

P.O.C	Electric bell	Washing machine
Input	Electrical energy	Electrical energy
Output	Sound energy and thermal energy (lost)	Kinetic energy, thermal and sound energies (lost)

3

P.O.C	Canyons	Valleys
Shape	They have steep sides, and are surrounded by narrow vertical walls.	They have gently sloped sides, and are surrounded by wide flat plains.

## Model (4)

20  
Marks

### 1 (A) Complete the following sentence using the words between brackets:

- The sound energy produced from an operating washing machine is considered a ..... energy. (waste - useful)

### (B) What happens when ...?

- 1 Carbon dioxide reacts with water vapor in the air.  
– **Acid rains are formed.**
- 2 Shaking a hand bell. (Regarding the energy conversion)  
– **The kinetic energy is converted into sound energy and thermal energy (lost energy).**
- 3 Plant roots grow in the cracks of rocks.  
– **The rocks are broken down (Mechanical weathering occurs).**
- 4 A rock blocks the path of flying sand in a desert.  
– **Sand dunes are formed.**

### 2 (A) Write the scientific term:

- A path that shows the flow of energy from its source to the device. (**Energy chain**)

### (B) Give a reason for:

- 1 The mobile phone gets warm when being used for long time.  
– **Because some electrical energy is lost in the form of thermal energy when the mobile phone operates.**
- 2 Hydroelectric dams are built on rivers.  
– **To control the water flow and increase the potential energy of water to generate electricity.**
- 3 People must not build houses very close to rivers.  
– **Because the path of rivers may change, causing weathering and erosion of rocks and houses.**
- 4 Chemical weathering has stronger effect than mechanical weathering on rocks.  
– **Because chemical weathering changes the structure of rocks producing new materials, while mechanical weathering doesn't.**

### 3 (A) Put (✓) or (X):

- 1 Powerplants that use biofuel to generate electricity cause air pollution. (X)
- 2 Pulling of sand from the seashores happens due to the erosion process. (✓)

**(B) Define each of the following:**

- 1 Law of conservation of energy.  
– **Energy is neither created nor destroyed, but it is converted from one form to another.**
- 2 Deposition.  
– **It is the process of laying down of sediments after their erosion.**
- 3 Canyons.  
– **They are deep valleys that are carved by water.**

**4 (A) Cross out the odd word:**

- 1 Solar heater – Hand mixer – Solar panel – Greenhouse. (**Hand mixer**)
- 2 Plant roots – Oxygen – Temperature changes – wind. (**Oxygen**)

**(B) Answer the following questions:**

- 1 Although trees are a renewable source of energy, we must limit their use.  
Explain.  
– **Because cutting down trees at a faster rate than they can grow leads to deforestation leading to negative effects on the environment and also wood will run out.**
- 2 What is the effect of smog from cars in big cities on the human health?  
– **It causes irritation of humans' eyes, and irritation of humans' lungs causing the damage of the respiratory system tissues.**
- 3 How do plants that grow in wetlands found in deltas increase deposition process?  
– **Plants partly slow down the speed of the river water and the plant roots help in trapping sediments.**

**20**  
**Marks**

- A phenomenon where the Earth's temperature increases slowly due to the trapping of heat on Earth. (Global warming)

**1** The wind rotates the blades of wind turbines.

**– The kinetic energy is converted into electrical energy. (Electricity is generated.)**

2 The dead remains of plant are pressed and exposed to extreme heat and pressure for millions of years.

- Coal is formed.

3 Wind that is carrying sand particles hits a big rock.

**– The sand particles carried by the wind carve the rocks forming different shapes.**

4 A river erodes the sediments of a mountain over a long period of time.

- **Valleys and canyons are formed.**

- All forms of fossil fuel are formed .....

a) above the Earth's surface

**b) under the Earth's surface**

c) above the water surface

d) in the air around us

**1** You feel warm when you rub your hands together.

- Because the kinetic energy is converted into thermal energy due to friction.

2 Greenhouses have an important role.

**– Because they help farmers plant crops that only grow in warm climate.**

**3** Acid rain has harmful effects on different living organisms.

- Because it chemically changes the structure of the soil that causes the death of trees, chemically changes the structure of lakes causing the death of fish.

4 Sand dunes are formed in some places and not formed in others.

- Because sand dunes are formed when a barrier like (rocks) blocks the wind-blown sand.

1 ..... is a biofuel.

(Charcoal - Coal)

2 Sand dunes in Rub' Al Khali in Arabian Peninsula are formed by ..... process.  
(weathering - **deposition**)



**(B) Answer the following questions:**

- 1 Write the energy chain of an operated wind turbine, starting from the Sun.  
– **Radiant energy → Thermal energy → Kinetic energy → Electrical energy.**
- 2 Mention the action of rain when it falls on the soil of farms that locate beside downhill.  
– **It washes away the soil of farms causing its erosion.**
- 3 Compare between ... .

P.O.C	Oil	Coal
Living organism each one is formed from	<b>Decomposition of the remains of marine living organisms (creatures).</b>	<b>Decomposition of dead remains of plants.</b>

**4 (A) Put (✓) or (X):**

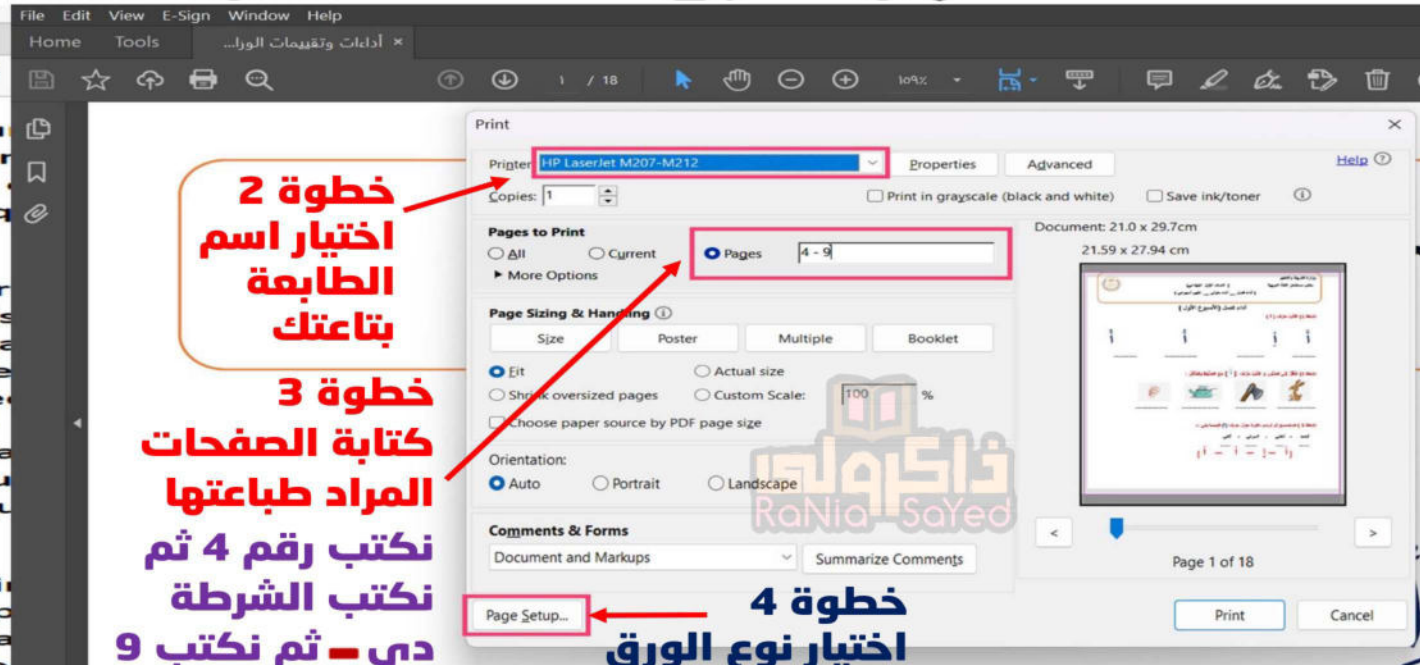
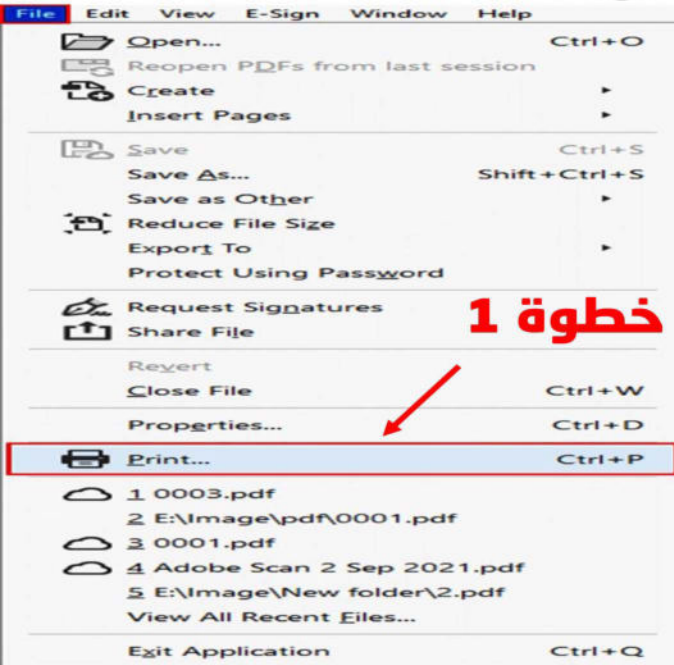
- 1 Renewable energy resources are replaced faster than they are used. (✓)
- 2 Canyons have the same texture, and rock colors. (X)

**(B) Look at the opposite figure, then answer:**

- 1 What is the opposite factor?  
– **Wind carrying sand.**
- 2 What is the effect of this factor on rocks?  
– **When wind pushes sand, friction between the sand and rocks causes them to break apart (mechanically weathered).**
- 3 Does the change happen to rocks quickly or slowly?  
– **The rocks change slowly.**



# كيفية طباعة صفحات معينة من ملف معين مثلا ازاي نطبع الصفحات من صفحة 4 الى صفحة 9



حمل الآن

مجانا وحصريا

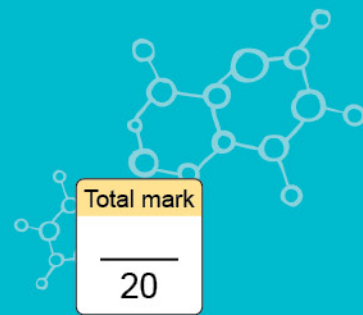
# امتحانات رقم (2)

## الترم الثاني





# Model Exam 1



## 1 (A) Choose the correct answer :

(5 marks)

All the following processes can change the Earth's surface, except .....

- a. weathering.      b. erosion.      c. respiration.      d. deposition.

## (B) Classify the following to mechanical weathering or chemical weathering :

1. Oxygen reacts with iron of rocks which weaken rocks. (.....)
2. Plant roots grow inside the cracks of rocks. (.....)
3. Breaking down of rocks by the effect of acids produced by lichens. (.....)
4. Breaking down of rocks by the effect of freezing of water and melting of ice inside their cracks. (.....)

## 2 (A) Cross out the odd word :

(5 marks)

Coal – Oil – Water – Natural gas. (.....)

## (B) Mention two differences and two similarities between canyons and valleys :

Points of Comparison	Canyons	Valleys
<b>Differences:</b>	1. ....	1. ....
	2. ....	2. ....
<b>Similarities:</b>	1. ....	1. ....
	2. ....	2. ....

## 3 (A) Put (✓) or (X) :

(5 marks)

1. You need gasoline to move a bicycle. ( )
2. Water can cause the two types of weathering. ( )

## (B) Complete the following sentences :

1. In some villages, solar panels are used to generate ..... energy that is used to operate ..... equipment.
2. Fast flow rivers carry sediments which called ....., and it is made of very fine bits of ..... ,clay or rock materials.
3. The electric lamp converts ..... energy into light and ..... energies.

**4 (A) Choose from column (B) what suits it in column (A) :** (5 marks)

(A) Form of fuel	(B) We can get it from
1. Oil 2. Coal	a. boiling water b. decomposition of sea creatures underground. c. decomposition of plants remains underground.

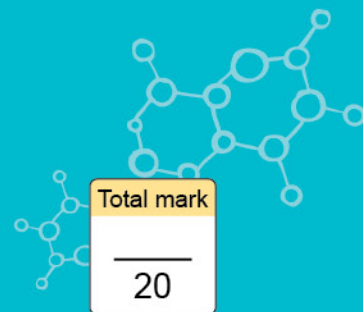
1. ....

2. ....

**(B) Write the scientific term for each of the following :**

1. Substances which produce thermal energy on burning. (.....)
2. The energy cannot be created or destroyed. (.....)
3. Transportation of small particles of rocks from one place to another. (.....)

# Model Exam 2



## 1 (A) Put (✓) or (X) :

(5 marks)

Energy may be destroyed inside different devices.

( )

## (B) What happens if ... ?

1. River erodes the rock of mountain over millions of years.

.....

2. You put your hands near the lighted lamp.

.....

3. Sunlight falls on solar panels.

.....

4. Water of seas and rivers evaporates, then condenses in the atmospheric air.

.....

## 2 (A) Cross out the odd word :

(5 marks)

Gravity – Wind – Water – Light.

(.....)

## (B) Classify the following factors that cause weathering in the table below :

1. Wind.

2. Acids.

3. Oxygen gas.

4. Temperature.

Factors cause mechanical weathering	Factors cause chemical weathering
.....	.....
.....	.....

## 3 (A) Correct the underlined words :

(5 marks)

1. Curiosity is a robotic vehicle that is designed to explore the surface  
of moon.

(.....)

2. A strong wind may carry sand grains for a short distance.

(.....)



(B) Look at the following figures, then complete the following sentences :



Device (1)



Device (2)



Device (3)



Device (4)

1. Thermal energy is produced in devices ..... and ..... to help them do their functions.
2. Kinetic energy is produced in devices ..... and ..... to help them do their functions.
3. Electrical energy is used to operate devices (2), ..... and .....

4 (A) Choose the correct answer :

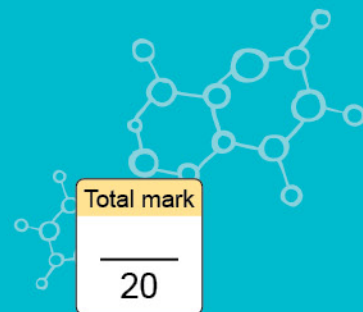
(5 marks)

1. Sand is formed due to breaking down of .....  
a. glass.                      b. rocks.                      c. wood.                      d. plastic.
2. Batteries store ..... energy inside them.  
a. chemical                      b. electrical                      c. solar                      d. kinetic

(B) Write the scientific term for each of the following :

1. It is a type of electrical energy generated by water turbines in dams. (.....)
2. They are fuels made from living organisms that can be planted. (.....)
3. It converts the kinetic energy into electrical energy. (.....)

# Model Exam 3



## 1 (A) Choose the correct answer :

(5 marks)

While playing guitar, the ..... energy changes into sound energy.

- a. kinetic      b. light      c. potential      d. thermal

## (B) Give reasons for the following :

1. Water plays an important role in the formation of limestone caves.

.....  
.....

2. Sometimes the fuel indicator of a car falls down.

.....  
.....

3. We must turn off lights that we do not need.

.....  
.....

4. Iron in rocks may rust.

.....  
.....

## 2 (A) Put (✓) or (X) :

(5 marks)

Canyons are similar in their colors, texture and shapes.

(    )

## (B) What happens if ...?

1. A river erodes the sediments of a mountain over a long period of time.

.....  
.....

2. You turn on an electric fan. (according to the change of energy)

.....  
.....

3. A river carries sediments meet a sea.

.....  
.....

4. Factories decrease their use of chemicals.

.....  
.....



**3 (A) Choose from column (B) what suits it in column (A) :** (5 marks)

(A)	(B)
1. Water 2. Wind energy	a. is the main resource of energy of the Earth's surface. b. is a gaseous renewable resource of energy. c. is a liquid renewable resource of energy.

1. ....

2. ....

**(B) Mention two examples for biofuels, and two examples for fossil fuels :**

Biofuels: .....

Fossil fuels: .....

**4 (A) Correct the underlined words :** (5 marks)

1. Toy cars depend on fuel as a source of electrical energy. (.....)

2. Wind is a non renewable energy resource. (.....)

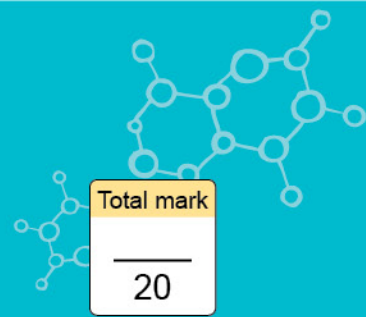
**(B) Mention three ways to conserve fossil fuels :**

1. ....

2. ....

3. ....

# Model Exam 4



## 1 (A) Put (✓) or (X) :

(5 marks)

There is a stored chemical energy inside the food we eat.

( )

## (B) Write the scientific term of the following :

1. Natural resources of energy, that take a short period of time to be renewed.

(.....)

2. They are deep valleys carved by flowing water.

(.....)

3. It is the process of laying down of sediments after their erosion.

(.....)

4. It is a phenomenon in which the Earth's temperature increases, when carbon dioxide gas increases in the air.

(.....)

## 2 (A) Cross out the odd word :

(5 marks)

Disappearance of a sandcastle – Breaking down of coastal rocks – Breaking down rocks – Formation of canyons.

(.....)

## (B) Mention one example for each of the following :

1. Nonrenewable energy resources.

(.....)

2. Renewable energy resources.

(.....)

3. V-shape canyon in Egypt.

(.....)

4. V-shape canyon outside Egypt.

(.....)

## 3 (A) Complete the following by using words between brackets :

(5 marks)

### (Fuel – Light)

1. .... is a substance that produces thermal energy when it is burned.

2. The lamp changes the electrical energy to ..... energy.

## (B) What happens to ...?

1. The car fuel indicator if the amount of gasoline in a car decreases.

.....  
.....

2. The sand in a desert when wind blows by a great force.

.....  
.....

3. The change of energy when you turn on the television.

.....  
.....

**4 (A) Choose the correct answer :**

**(5 marks)**

1. When you use the hand bell, the ..... energy changes into sound energy.

- a. light                      b. thermal                      c. kinetic                      d. electrical

2. Using convergent ..... in cooking food is one of the benefits of using the solar energy.

- a. paper                      b. plastic                      c. wood                      d. mirrors

**(B) Mention three processes through which the Earth's surface change :**

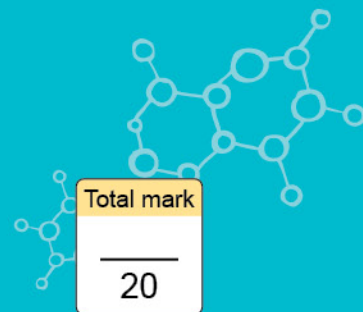
1. ....

2. ....

3. ....



# Model Exam 5



## 1 (A) Put (✓) or (X) :

(5 marks)

Solar cells convert electrical energy into radiant energy.

( )

## (B) Classify the following to biofuels and fossil fuels :

(Wood – Natural gas – Charcoal – Coal)

1. Biofuels : ..... and .....

2. Fossil fuel : ..... and .....

## 2 (A) Correct the underlined word :

(5 marks)

Carbon dioxide gas in the air reacts with the iron of some rocks forming iron rust.

(.....)

## (B) What happens to ... ?

1. A flat land, if a water stream flows over it.

.....

2. The car movement if fuel runs out in the car.

.....

3. The Earth's temperature if we use renewable resources of energy instead of fossil fuels.

.....

4. The change of energy when you burn a piece of wood.

.....

## 3 (A) Choose the correct answer :

(5 marks)

1. When you use electrical iron, the ..... energy changes into thermal energy.

a. light                      b. thermal                      c. kinetic                      d. electrical

2. River water evaporates by the help of heat produced from .....

a. kettles.                      b. the Sun.                      c. electric heaters.                      d. electric iron.

**(B) Complete the following sentences :**

1. There are two types of weathering which are..... weathering and ..... weathering.
2. Dams control the flow of ....., that causes the increase of the ..... energy of water.
3. When you eat food, your body converts the ..... energy stored in the food into ..... energy when you move.

**4 (A) Choose from column (B) what suits it in column (A) : (5 marks)**

(A)	(B)
1. Deltas 2. Valleys	a. are formed by the effect of weathering. b. are formed by the effect of deposition. c. are lowland areas between mountains.

1. .... 2. ....

**(B) Mention three factors affecting weather :**

1. ....
2. ....
3. ....

### Model Exam 1

1 (A) c

- (B) 1. Chemical weathering.  
2. Mechanical weathering.  
3. Chemical weathering.  
4. Mechanical weathering.

2 (A) Water. (All items are nonrenewable energy resources, while water is a renewable energy resource).

(B)

Points of comparison	Canyons	Valleys
<b>Differences:</b>	1. They are areas that were eroded in mountains.	1. They are lowland areas between mountains.
	2. They are very high.	2. They have gently sloped sides.
<b>Similarities:</b>	1. They can be formed by rivers. 2. They have rivers flow through the lowest points.	

3 (A) 1. (✗) 2. (✓)

- (B) 1. electrical – irrigation  
2. silt – sand 3. electrical – thermal

4 (A) 1. b 2. c

- (B) 1. Fuel.  
2. The law of conservation of energy.  
3. Erosion.

### Model Exam 2

1 (A) (✗)

- (B) 1. A canyon may be formed.  
2. You feel warm.  
3. The solar energy of the Sun changes into electrical energy.  
4. Clouds are formed and rain may fall.

2 (A) Light. (All items cause erosion, except light).

(B)

Factors cause mechanical weathering	Factors cause chemical weathering
Wind – Temperature.	Acids – Oxygen gas.

3 (A) 1. Mars. 2. long

- (B) 1. (1) – (2)  
2. (3) – (4) 3. (3) – (4)

4 (A) 1. b 2. a

- (B) 1. Hydroelectricity.  
2. Biofuels.  
3. Generator.

### Model Exam 3

1 (A) a

- (B) 1. Because water dissolves mineral in rocks, then these dissolved minerals combine again forming new shapes.  
2. Because the fuel in the car tank runs out.  
3. To conserve the electricity.  
4. Due to the reaction between iron and oxygen of air.

2 (A) (✗)

- (B) 1. A canyon is formed.  
2. Electrical energy changes into kinetic energy.  
3. A delta may be formed.  
4. The pollution of air, water and soil will decrease.

3 (A) 1. c 2. b

- (B) – Biofuels : wood – charcoal.  
– Fossil fuels : oil – coal.

4 (A) 1. batteries. 2. renewable.

- (B) 1. Walking or using bicycles.  
2. Turning off the lights that you do not need.  
3. Replacing fossil fuels with renewable energy resources.



### Model Exam 4

1 (A) (✓)

- (B) 1. Renewable resources of energy.  
2. Canyons.  
3. Deposition.  
4. Global warming.

2 (A) Disappearance of sandcastle. (All items are examples of slow changes, while disappearance of sandcastle is an example of fast changes).

- (B) 1. coal. 2. wind.  
3. Colored canyon in Sinai.  
4. Wadi Rum Canyon in Jordan.

3 (A) 1. Fuel 2. light

- (B) 1. The car fuel indicator will go down.  
2. The sand travels for a long distance.  
3. The electrical energy changes into sound and light energies.

4 (A) 1. c 2. d

- (B) 1. Weathering. 2. Erosion.  
3. Deposition.

### Model Exam 5

1 (A) (✗)

- (B) 1. wood – charcoal  
2. Natural gas – coal

2 (A) Oxygen

- (B) 1. A small canyon may be formed.  
2. The car movement decreases gradually until it stops.  
3. The Earth's temperature will not increase.  
4. The chemical energy changes into thermal and light energies.

3 (A) 1. d 2. b

- (B) 1. mechanical – chemical  
2. water – potential  
3. chemical – kinetic

4 (A) 1. b 2. c

- (B) 1. Temperature. 2. Wind.  
3. Rains.

حمل الآن

مجانا وحصريا

# امتحانات رقم (3)

## الترم الثاني





<b>Model Exam</b> 	Dakahlia Governorate	Science Primary Four	Time : 1½ Hours
	Educational Directorate	2 <sup>ND</sup> Term May 2025	توجيه عام العلوم لغات
	نموذج امتحان الفصل الدراسي الثاني / مايو 2025 / الصف الرابع الابتدائي ((الاجابة في نفس الورقة / صفحة واحدة))		

**Answer each of the following questions**

**First Question : - (A) : - Choose the correct answer : -**

- 1- When a piece of coal is burnt, energy is produced.  
a) thermal                      b) kinetic                      c) sound                      d) potential
- 2- To reduce pollution of cars smog, we have to operate cars by  
a) gasoline or natural gas                      b) gasoline or electricity  
c) solar energy or electricity                      d) gasoline or coal
- 3- Most of electricity generated in Egypt is from  
a) fossil fuels                      b) biofuels                      c) solar energy                      d) water
- 4- Rub' Al Khali sand dunes in the Arabian Peninsula are formed by  
a) weathering                      b) deposition                      c) erosion                      d) aeration

**(B) : - What happen if : -**

The water in the electric power station is heated up.

.....

.....

.....

=====

**Second Question : - (A) : - Complete the following sentences using the words between brackets : -**

- 1- Amount of electrical energy entering an electric mixer is .....  
amount of kinetic energy produced from it. (equal to - more than)
- 2- Ancient people used ..... as a form of fuel before discovering gasoline. (wind - wood)
- 3- ..... is a weathering agent that causes land forms to change.  
(Plant roots growth - Gravity)
- 4- The valley is of ..... land. (a high area - a plain flat area)

**(B) : - Give reason : -**

1. When you press on the spring of a soap dispenser, the soap moves upward.



**Third Question :- (A) :- put (  $\checkmark$  ) or ( X ) :-**

1. The movement of a generator in electric power station produces potential energy. ( )
2. Gasoline is a fuel made from oil. ( )
3. The flow of water can be controlled to generate electricity in dams. ( )
4. A delta is formed at the mouth of a river due to deposition process. ( )

**(B) :- Write the scientific term :-**

It is a type of weathering that changes the structure of rocks.

( ..... )

**Fourth Question :-**

**(A) :- Look to the opposite pictures then answer :-**



Figure 1



Figure 2

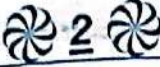
A ) Which one of them generates the electric energy is higher?

b) What is the name of input energy to this type of turbines?

**(B) :- What happen if :-**

Your hand is approached to lighting electric lamp.



<b>Model Exam</b> 	Dakahla Governorate	Science Primary Four	Time : 1½ Hours
	Educational Directorate	2 <sup>ND</sup> Term May 2025	توجيه عام العلوم لغات
	نموذج امتحان الفصل الدراسي الثاني / مايو 2025 / الصف الرابع الابتدائي ((الاجابة في نفس الورقة / صفحة واحدة))		

**Answer each of the following questions**

**First Question : - (A) : - Choose the correct answer : -**

- 1- Mars rover "Curiosity" converts energy into ..... and .....  
 a) sound, light, electrical      b) solar, electrical, kinetic energy  
 c) chemical, light, sound      d) thermal, potential, light
- 2- Both coal and charcoal ..... of energy.  
 a) are renewable resources      b) are non-renewable resources  
 c) are examples of biofuel      d) produce thermal energy by burning
- 3- All the following are among the actions that don't conserve electrical energy, except .....  
 a) unplugging unused electrical appliances  
 b) leaving the television turned on  
 c) plugging the unused electric appliances  
 d) No correct answer
- 4- fossils of creatures such as whales and crocodiles are evidence of the existence of .....  
 a) shallow water      b) deep water      c) mountains      d) hills

**(B) : - What happens if : -** Exposing the solar cell of a solar water heater to the Sun. (Regarding the energy conversions) ?

.....  
 .....  
 =====

**Second Question : - (A) : - Complete the following sentences using the words between brackets \***

1. .... is the output energy from a guitar. (Kinetic - Sound)
2. Oil was formed from the decomposition of. (sea creatures -plants)
3. Delta formation is an evidence of the occurrence of the ..... process. (deposition -weathering)



4. The rocks contain sedimentary rocks containing ..... fossils.  
(new - ancient)

**(B) :- Give reason :-** Chemical weathering has stronger effects than the mechanical weathering.

**Third Question :- (A) :- put (✓) or (X) :-**

- 1 The body stores mechanical energy from food. ( )
2. Weak winds erode sand for long distances, while strong winds erode sand for short distances. ( )
3. Turbines convert kinetic energy into electrical energy. ( )
4. Wadi-Hitan rocks were formed as a result of weathering, erosion, and deposition. ( )

**(B) :- Write the scientific term :-**

Energy is neither created nor destroyed, but it is converted from one form to another. ( )

**Fourth Question :-**

**(A) :- Choose from column (B) what suit from column (A) :-**

(A)	(B)
1. Erosion	a. It formed when carbon dioxide gas combine with water in air.
2. Condensation	b. Use the energy of sun to heat water.
3. Acidic rain	c. A process in which water vapor change to water.
4. Solar water heater	d. The movement of sediments from one place to another.

1. .... 2. .... 3. .... 4. ....

**(B) :- Cross the odd word :-**

Cooling – burying – heating – decomposition. ( )



<b>Model Exam</b>  <b>3</b> 	Dakahlia Governorate	Science Primary Four	Time : 1½ Hours
	Educational Directorate	2 <sup>ND</sup> Term May 2025	توجيه عام العلوم لغات
	الصف الرابع الابتدائي / مايو 2025 / نموذج امتحان الفصل الدراسي الثاني / نفس الورقة / صفحة واحدة ((الاجابة في نفس الورقة / صفحة واحدة))		

**Answer each of the following questions**

**First Question : - (A) : - Choose the correct answer : -**

- 1- Batteries store ..... energy that is converted into ..... energy.
  - a) chemical, electrical
  - b) electrical, chemical
  - c) light, chemical
  - d) electrical, light
- 2- Biofuels are .....
  - a) renewable
  - b) nonrenewable
  - c) made from cultivated plants
  - d) Both (a) and (c)
- 3- As the water flowing increases, the ..... increases.
  - a) erosion
  - b) weather change
  - c) formation of sand dunes
  - d) humidity
- 4- The shape of the valley depends on many factors such as .....
  - a) the speed of the river
  - b) the type of rocks found
  - c) heat
  - d) Both (a) and (b)

**(B) : - What happens if : -** Marine organisms were buried under the Earth's surface over millions of years.

.....

.....

.....

=====

**Second Question : - (A) : - Complete the following sentences using the words between brackets \***

1. is the primary source of energy on Earth. (The Sun - The moon)
2. Energy sources that are replaced after a short time of use are sources of energy. (renewable - nonrenewable)
3. Sandstone is an example of rocks. (sedimentary - limestone)



4. Canyons have sides.

(gently sloped - steep vertical)

**(B) : - Give reason : -**

The surface of the earth is always changing ?

**Third Question : - (A) : - put (  $\sqrt$  ) or ( X ) : -**

1- Kinetic energy of the wind is converted into electrical energy by wind turbines. ( )

2- Fossil fuel includes oil, coal, and wood. ( )

3- Dams are built on rivers in order to generate solar energy. ( )

4- Older rocks are found in the higher layers , while newly formed rocks are found in the lower layers. ( )

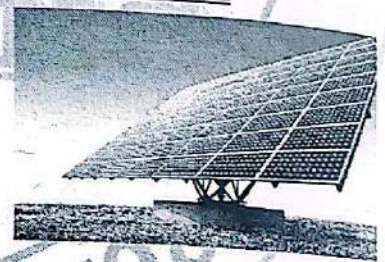
**(B) : - Write the scientific term : -**

A turbine that converts the energy of falling water into electrical energy. ( )

**Fourth Question : - (A) : - From the opposite figure : -**

1. The name of this device is .....



2. It changes ..... energy into ..... energy.



**(B) : - Give reason : -**

Formation of delta



<b>Model Exam</b>  4 	Dakahlia Governorate	Science Primary Four	Time : 1½ Hours
	Educational Directorate	2 <sup>ND</sup> Term May 2025	توجيه عام العلوم لغات
	نموذج امتحان الفصل الدراسي الثاني / مايو 2025 / الصف الرابع الابتدائي ((الاجابة في نفس الورقة / صفحة واحدة))		

**Answer each of the following questions**

**First Question : - (A) : - Choose the correct answer : -**

- 1- Sand is formed due to breaking down of .....  
 a. wood.                      b. rocks.                      c. plastic.                      d. glass.
- 2- Dissolving metals forming rocks is an example for .....  
 a. mechanical weathering.                      b. chemical weathering.  
 c. erosion by wind.                      d. deposition in rivers.
- 3- ..... is considered one of the resources that we consume at a faster rate than it is formed .  
 a. Wind                      b. Solar energy                      c. Water                      d. Fossil fuel
- 4- The input energy that the hair dryer uses is Energy .....  
 a. electrical                      b. sound.                      c. kinetic.                      d. thermal

**(B) : - What happen when : -** Wind doesn't blow in an area that contains many modern wind turbines.

.....  
 .....  
 .....  
 =====

**Second Question : - (A) : - put ( √ ) or ( X ) : -**

- 1- You need gasoline to move a bicycle. ( )
- 2- When fuel is burned, it produces thermal energy. ( )
- 3- Wind can be considered as one of the factors that cause weathering. ( )
- 4- When water freezes, its volume decreases. ( )



(B) : - Give reason : - We must turn off lights that we do not need.

Third Question : - (A) : - Correct the underlined words : -

1- Biofuels are from Nonrenewable resources of energy.

( ..... )

2- Light energy is stored inside the battery of mobile phone.

( ..... )

3- Generator is used in converting light energy to electrical energy.

( ..... )

(B) : - Cross out the odd word : -

1- Weathering - Photosynthesis - Deposition - Erosion.

( ..... )

2- Solar water heater - Hand mixer - Solar panel - Greenhouse.

( ..... )

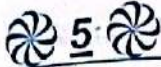
Fourth Question : - (A) : - Write the scientific term : -

Deep valley formed by following water. ( ..... )

(B) : - What happen when : - Acid rain fall on rocks.

(C) : - Mention : - Energy changes in electric fan.



<b>Model Exam</b> 	Dakahlia Governorate	Science Primary Four	Time : 1½ Hours
	Educational Directorate	2 <sup>ND</sup> Term May 2025	توجيه عام العلوم لغات
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**Answer each of the following questions**

**First Question : - (A) : - Choose the correct answer : -**

- 1- When a rock's surface is eroded due to weather factors, this indicates the occurrence of process .....  
 a. weathering      b. deposition      c. transfer      d. erosion
- 2- The produced energy from flowing water of waterfalls and dams and operating turbines is called.....  
 a. mechanical energy.      c. chemical energy.  
 c. hydroelectric energy.      d. kinetic energy.
- 3- Which of the following indicates the occurrence of chemical\* weathering process?  
 a. Water freezes inside rocks.  
 b. Mixing the acidic water with rocks.  
 c. Trees' roots grow in rocks cracks.  
 d. Rocks colliding with each other as a result of water current.
- 4- Which of the following is a preferred natural resource to generate clean energy?  
 a. Water, coal, and oil.      b. Trees and dry herbs.  
 c. Ocean and river water.      d. Coal and natural gas.
- 5- What is the process in which the landforms change due to weathering factors?  
 a. Expansion.      b. Weathering.      c. Erosion.      d. Evaporation.

**Second Question : - (A) : - Write the scientific term : -**

- 1- A device used to convert solar energy into thermal energy.  
 ( ..... )
- 2- A natural movement of air that results from the difference in temperature between cold air and hot air. ( ..... )



3- The energy produced from a battery. ( .....

**(B) : - Give an example for : -**

1- Fossil fuel. ( .....

2- Biofuel. ( .....

**Third Question : -**

**(A) : - Choose from column (B) what suits it in column (A) : -**

(A)	(B)
1. Canyons	a. is the ability to do work
2. Weathering	b. are natural resources of energy that take long period of time to be renewed.
3. Nonrenewable resources	c. is the breaking down of large rocks into small particles.
4. Energy	d. are deep valleys carved by flowing water.

1 ..... 2 ..... 3 ..... 4 .....

**(B) : - What happens : -**

1- To a generator that is connected to a damaged turbine in an electric power station.

**Fourth Question : - (A) : - Complete the following sentence : -**

1- ..... and ..... from energies.

**(B) : - Mention : -**

1- Wasted energy when using electric lamp.

2- Changes of energy in solar panel.







**Third Question : - (A) : - Rearrange the following steps to describe how coal is formed : -**

- a- The Earth surface plants got old and died . ( )
- b- The remains of the plants were decomposed and covered with sand and clay layers . ( )
- c- Anciently, Earth was contained with swamps where plants grow . ( )
- d- Several layers of clays and sands were deposited on the remains of dead plants . ( )
- e- The buried plants were changed into coal because of heat and pressure . ( )

**(B) : - Give reason for : -**

- 1- Iron in rocks may rust .

- 1- Some calculators use solar panels to be operated .

**Fourth Question : -**

**(A) : - put (  $\checkmark$  ) or ( X ) : -**

- 1- Coal was formed from decomposition of sea animals. ( )

**(B) : - Mention : -**

- 1- Two factors make both weathering and erosion together.

- 2- The input and output energies in electric heater.



<b>Model Exam</b> 	Dakahlia Governorate	Science Primary Four	Time : 1½ Hours
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	الصف الرابع الابتدائي / مايو 2025 / نموذج امتحان الفصل الدراسي الثاني / الورقة / صفحة واحدة ((الاجابة في نفس الورقة / صفحة واحدة))		

**Answer each of the following questions**

**First Question : - (A) : - Choose the correct answer : -**

- The idea of design and work of the robot that explores the surface of Mars depends on the idea of transforming .....  
 a. electrical energy to kinetic energy.  
 b. potential energy to kinetic energy.  
 c. light energy to electrical energy.  
 d. kinetic energy to electrical energy.
- Hydroelectric energy is generated from .....  
 a. waterfalls only  
 b. waterfalls and dams  
 c. biofuel only  
 d. biofuel and fossil fuel

**(B) : - put ( √ ) or ( X ) : -**

- Energy may be destroyed inside different devices. ( )
- Coal was formed from the sea animals' remains. ( )
- Canyon can take millions of years to be formed. ( )

**Second Question : - (A) : - Write the scientific term : -**

- The energy used to play the drum. (.....)
- A mill that is turned by wind flow. (.....)
- Process in which rocks are broken down into smaller particles. (.....)
- It is any substance which produces thermal energy on burning. (.....)
- The process in which the laying down of sediment after its erosion. (.....)

**Third Question : - (A) : - What happen : -**

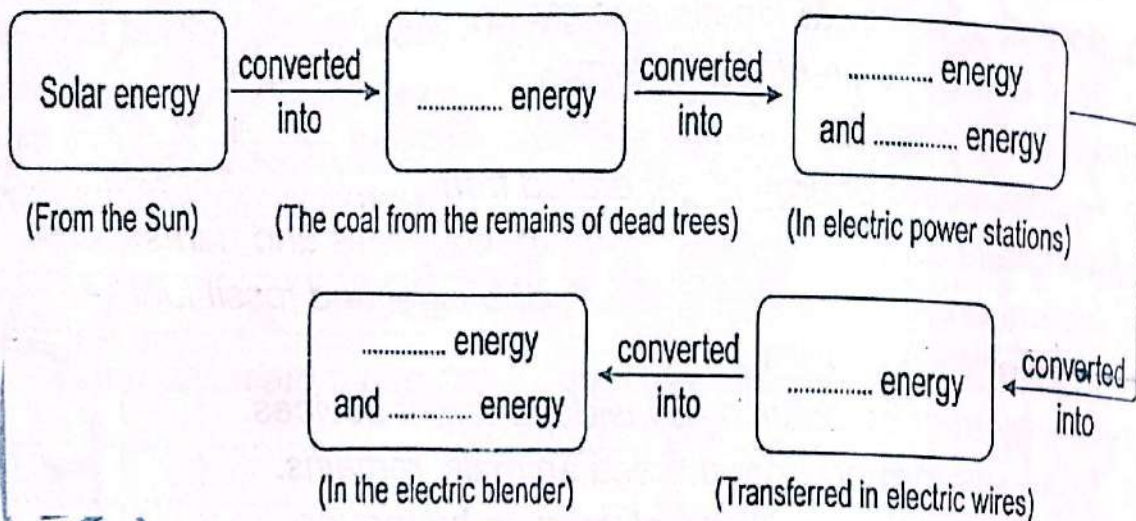
- To the sand in a desert when wind blows by a great force .



2- The kinetic energy of a wind that is applied on the wind turbine increases.

**(B) : - Complete the following model : - \***

The energy chain of electric blender :



**Fourth Question : - (A) : - Give reason : -**

1- Wood is considered as a fuel.

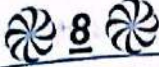
**(B) : - Mention : -**

1- Tool that make changes opposite to changes of energy in water turbines.

**(B) : - Write the scientific term : -**

1- Energy neither created nor destroyed but change from one form to another. ( ..... )



<b>Model Exam</b> 	Dakahlia Governorate	Science Primary Four	Time : 1½ Hours
	Educational Directorate	2 <sup>ND</sup> Term May 2025	توجيه عام العلوم لغات
	نموذج امتحان الفصل الدراسي الثاني / مايو 2025 / الصف الرابع الابتدائي ((الاجابة في نفس الورقة / صفحة واحدة))		

**Answer each of the following questions**

**First Question : - (A) : - Choose the correct answer : -**

1- Which of the following is a preferred natural resource to generate clean energy?

- a. Oceans and river water      b. trees and dry herbs  
c. water, coal and oil      d. coal and natural gas

2- ..... is a renewable source of energy .

- a. coal      b. natural gases      c. water      d. fossil fuel

3- What is the process in which the landforms change due to weathering factors?

- a. expansion      b. weathering      c. erosion      d. evaporation

4 - The formation of sand dunes in western desert in Egypt is due to the movement of .....

- a. floods      b. winds      c. waves      d. torrents

**(B) : - Complete the following model : -**



**Second Question : - (A) : - put ( √ ) or ( X ) : -**

- 1- Light energy isn't produced from the sun. ( )  
2- The fossil fuels Is considered one of the resources that we consume at faster rate than it is formed. ( )  
3- Dissolving metals forming rocks is an example for erosion by wind. ( )  
4- The mountain is steep and formed due to power of flowing water erosion. ( )

**(B) : - Give reason for : - Formation of sand.**



**Third Question :-**

**(A) :- Choose from column (B) that suits column (A) :-**

(A)	(B)
1- Water	a- Generate electricity by using solar energy
2- Law of conservation of energy	b- Energy doesn't destroy or create from nothing
3 Canyon	c- Is a steep landform and formed due to the power of flowing water erosion
4- Solar panels	d- Is renewable resource of energy
1- .....	2- ..... 3- ..... 4- .....

**(B) :- Write scientific term :-**

1- The process by which sediments lay down after its erosion .

( ..... )

**Fourth Question :- (A) :- put ( ✓ ) or ( X ) :-**

1- There is stored chemical energy inside food we eat. ( )

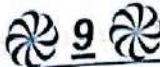
**(B) :- Mention :-**

1- Two examples of land forms formed by effect of erosion and deposition.

**(C) :- What happen to :-**

1- sea creature were buried under Earth's surface over millions of years.



<b>Model Exam</b> 	Dakahlia Governorate	Science Primary Four	Time : 1½ Hours
	Educational Directorate	2 <sup>ND</sup> Term May 2025	توجيه عام العلوم لغات
	نموذج امتحان الفصل الدراسي الثاني / مايو 2025 / الصف الرابع الابتدائي ((الاجابة في نفس الورقة / صفحة واحدة))		

**Answer each of the following questions**

**First Question : - (A) : - put (√) or (X) : -**

- 1- Sun is the main source of forming both biofuel and fossil fuel. ( )
- 2- Biofuel is one of the nonrenewable resources of energy. ( )
- 3- Both wind movement and water flow have kinetic energy. ( )

**(B) : - Mention two examples of : -** Devices can change electric energy into thermal, sound and kinetic energy.

**(C) : - Arrange the following items to : -** Forms of energy when applying hydroelectric dams to generate electricity.

Electric energy, Gravitational potential energy, kinetic energy.

**Second Question : - (A) : - Choose the correct answer : -**

- 1- Sand is formed due to breaking down of .....  
 a- glass.      b- wood.      c- rocks.      d- plastic.
- 2- A canyon can be formed by the effect of .....  
 a- plants.      \*b- animals.      c- water.      d- sunlight.
- 3- When you use the hand bell, the ..... energy change to sound energy.  
 a- light.      b- thermal.      \*c- kinetic.      d- electric

**(B) : - Give reason : -**

- 1- Water is considered a renewable resource of energy.



**(B) : - What happens : -**

1- Solar panels are exposed to sunlight. (according to change of energy).

**Third Question : - (A) : - Write scientific term : -**

1- A process in which rocks are broken down into smaller particles.  
(.....)

2- Landform is formed due to erosion and deposition of sand in sandy desert environment. (.....)

**(B) : - Complete the following table : -**

P.O.C	Windmills	Watermills
Input energy	(1) .....	(2) .....
Output energy	(3) .....	(4) .....

**(C) : - Determine the wasted energies when using : -**

Electric blender.

**Fourth Question : - (A) : - Complete the following sentence : -**

The wasted energy the produced from electric lamp is .....

**(B) : - Classify the following into two groups : -**

oil – grass – wind – gasoline – coal – water – natural gas - sun

Renewable energy resources	Nonrenewable energy resources
.....	.....
.....	.....



<b>Model Exam</b>  <b>10</b> 	Dakahlia Governorate	Science Primary Four	Time : 1½ Hours
	Educational Directorate	2 <sup>ND</sup> Term May 2025	توجيه عام العلوم لغات
	نموذج امتحان الفصل الدراسي الثاني / مايو 2025 / الصف الرابع الابتدائي ((الاجابة في نفس الورقة / صفحة واحدة))		

**Answer each of the following questions**

**First Question : -(A) : - Choose the correct answer : -**

1- The produced energy from radio that reflects its main function is  
 ..... energy

- a. Electric      b. Sound      c. Light      d. Chemical.

**(B) : - Give reason : -**

1. Coal is considered as a nonrenewable energy resource.

2. Some calculators use the sunlight to operate.

3. Water turbines are placed in waterfalls areas.

4. Iron in rocks may rust.

**Second Question : - (A) : - put ( √ ) or ( X ) : -**

1. Water can cause the two types of weathering. \* ( )

**(B) : - What happens : -**

1. Oxygen of air reacts with iron of some rocks.

2. A river carries sediments meet a sea.

3. A small canyons if it rained a lot, water ran through it a longer time



4- To the sand in a desert when wind blows by a great force .

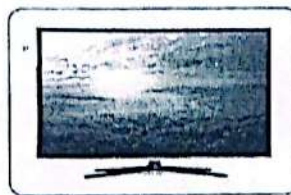
**Third Question : - (A) : - Complete the following sentences : -**

1. Dams control the flow of ..... that causes the increase of the ..... energy of water.
2. Nile River Delta in Egypt is formed due to ..... process.

**(B) : - Mention the input and output energies : -**



Device (1)



Device (2)



Device (3)

	Device (1)	Device (2)	Device (3)
Input	.....	.....	.....
Output	.....	.....	.....

**Fourth Question : - (A) : - Cross out the odd word : -**

1. Solar water heater – Hand mixer – Solar panel – Greenhouse.  
( ..... )
2. Gravity – Wind – Waves – Light.  
( ..... )

**(B) : - Write scientific term : -**

1. The energy produced from a battery. ( ..... )
2. It is a liquid form of fossil fuel that was formed from dead marine animals. ( ..... )
3. A hill of sand created by the wind. ( ..... )



Model Exam 11	Dakahlia Governorate	Science Primary Four	Time : 1½ Hours
	Educational Directorate	2 <sup>ND</sup> Term May 2025	توجيه عام العلوم لغات
نموذج امتحان الفصل الدراسي الثاني / مايو 2025 / الصف الرابع الابتدائي (الإجابة في نفس الورقة / صفحة واحدة)			

**Answer each of the following questions**

**First Question : - (A) : - Complete the following by using the following words : -** (Heat - global warming - gases - rises)

1. From the harms of using fossils-fuels, when it burned it produces ..... that causes air pollution and trap ..... in the atmosphere, which ..... the temperature on the Earth that causes ..... and change the climate of the Earth.

**(B) : - Choose the correct answer : -**

1- When a rock blocks the path of flying sand, a ..... may be formed.  
a- River                      b- dune                      c- canyon                      d- valley.

**Second Question : - (A) : - Correct the under lined word : -**

1. plant leaves grow inside the cracks of rocks which become wider. ( ..... )

**(B) : - Classify the following factors into mechanical or chemical weathering : -**

Oxygen gas – plant roots – wind – Acids rains

Mechanical weathering	Chemical weathering
.....	.....
.....	.....

**Third Question : -**

**(A) : - Complete the following sentences : -**

1. The electric fan converts ..... energy into ..... energy.



2. The stored energy in the coal is ..... energy, while burning coal produces ..... energy.

**(B) : - Mention one example for each of the following : -**

1. Fossil fuel ..... 2. Biofuel .....

**(C) : - Mention one of the ways to conserve the fossil fuel : -**

**(D) : - Compare between old and modern wind turbines : -**

P.O.C.	Old wind turbines	Modern wind turbines
Function	.....	.....

**Fourth Question : - (A) : - Write the scientific term : -**

1- Process in which rocks are broken down into smaller particles.

( ..... )

2- The output energy on playing on a drum. ( ..... )

**(B) : - Give reason : -**

1. You feel heat when you put your hand close to the electric lamp.

2. Thermal energy in the mobile phone is wasted energy.

**(C) : - What happen if : -**

1. Sea creatures were buried under the Earth's surface over millions of years.



<b>Model Exam</b> 12	Dakahlia Governorate	Science Primary Four	Time : 1½ Hours
	Educational Directorate	2 <sup>ND</sup> Term May 2025	توجيه عام العلوم لغات
	نموذج امتحان الفصل الدراسي الثاني / مايو 2025 / الصف الرابع الابتدائي ((الاجابة فى نفس الورقة / صفحة واحدة))		

**Answer each of the following questions**

**First Question : -**

**(A) : - Choose the correct answer : -**

1. the energy source in a toy car is the .....  
a- engine      b- tires      c- battery      d- fuel
2. all the following are used to generate electrical energy, except ....  
a- oil      b- natural gas      c- water      d- glass

**(B) : - What happens if : -**

1. A river erodes the sediments of mountain over a long period of time.

2. you put your hands near the lighted lamp.

**Second Question : -**

**(A) : - Give reason : -**

1. Generators are important in electric power station.



**(B) : - write the scientific term : -**

1. The energy that is used to operate a television. ( ..... )
2. A process in which the colors of paints of houses are changed as a result of falling of acid rains. ( ..... )

**Third Question : -**

**(A) : - put ( √ ) or ( X ) : -**

1. All physical factors of mechanical weathering lead to breaking down of rocks. ( )
2. we can make liquid biofuel from wood chips and grass. ( )

**(B) : - In the following table, write how each land form is caused by using the words below : - water – wind**

P.O.C.	Canyons , valleys	Deltas	Sand dunes
causes	.....	.....	.....

**Fourth Question : -**

**(A) : - Correct the underline word : -**

- 1- Wadi nakhr is an example of valleys. ( ..... )
- 2- Small solar panels are used to supply one light bulb with sound energy. ( ..... )

**(B) : - Complete the following sentences : -**

- 1- Types of weathering can be calcified into mechanical weathering and ..... weathering.
- 2- The electric lamp converts ..... energy into light energy and ..... energy.



Model Exam 13	Dakahlia Governorate	Science Primary Four	Time : 1½ Hours
	Educational Directorate	2 <sup>ND</sup> Term May 2025	توجيه عام العلوم لغات
	نموذج امتحان الفصل الدراسي الثاني / مايو 2025 / الصف الرابع الابتدائي (الإجابة في نفس الورقة / صفحة واحدة)		

**Answer each of the following questions**

**First Question : - (A) : - Choose the correct answer : -**

1. Some types of lamps in streets depend directly on .....  
as a renewable energy resource in order to do its function.

a- sunlight      b- petrol      c- coal      d- natural gas

**(B) : - What happens if : -**

1. A red-colored rust is formed on some rocks.

**(C) : - Define : -**

1. Deposition.

**Second Question : - (A) : - Give reason : -**

1. Valleys have different shapes.

2. Thermal energy in a mobile phone is considered as a wasted energy.

**(B) : - Write the scientific term : -**

1. Energy can neither be created nor destroyed, but only converted from one form to another. ( ..... )



=====

**Third Question : - (A) : - put ( √ ) or ( X ) : -**

1. Limestone caves are formed by the action of mechanical weathering. ( )
2. Fossil fuels that human made from corn can be replaced as quickly as it used. ( )

**(B) : - Compare between : -**

Acid rain, Global warming. ( according to the effect )

.....\*

.....\*

**(C) : - Complete the following sentence : -**

1. The input energy of a hair dryer is ..... energy, while the output energies are ..... energy, ..... energy, and ..... energy.
- =====

**Fourth Question : - (A) : - What is the similarity between : -**

Mechanical weathering and Chemical weathering.

.....\*

.....\*

**(B) : - Correct the underlined words : -**

1. There is a stored thermal energy inside the food we eat. ( ..... )
  2. Erosion is the process of laying down of sediments. ( ..... )
- .....\*
- .....\*

**(C) : - Give reason: -**

1. Coal is nonrenewable energy resources.
- .....\*
- .....\*
- =====



<b>Model Exam</b> <b>14</b>	Dakahlia Governorate	Science Primary Four	Time : 1½ Hours
	Educational Directorate	2 <sup>ND</sup> Term May 2025	توجيه عام العلوم لغات
	نموذج امتحان الفصل الدراسي الثاني / مايو 2025 / الصف الرابع الابتدائي ((الاجابة في نفس الورقة / صفحة واحدة))		

**Answer each of the following questions**

**First Question : - (A) : - Choose the correct answer : -**

1. Walls of canyons are characterized by all the following except that they .....

a- are very high

b- are gently sloped

d- have great depth

d- consist of many rocks layers

**(B) : - What happens if : -**

1. You use a mobile phone for a long time. ( according to the wasted energy).

2. A house that is built close to a river, if the path of the river is changed toward this house.

**Second Question : -**

**(A) : - Write the scientific term : -**

1. A fan shaped mass of sediments that is formed where a river enters a larger body of water like seas. ( ..... )

**(B) : - Give a reason : -**

1. Water play an important role in the formation of limestone caves.



2. Generators are important in electric power stations.

**Third Question : - (A) : - put ( √ ) or ( X ) : -**

1. Wind energy will run out faster than natural gas. ( )
2. Weather is the breaking down of rocks on Earth's surface into smaller pieces. ( )

**(B) : - Mention : -**

Two factors make both weathering and erosion together.

**(C) : - Write the scientific term : -**

Transportation of small pieces of rocks from place to another.  
( ..... )

**Fourth Question : - (A) : - Complete the following sentence : -**

1. Chemical reaction between iron and ..... causes its rusting.

**(B) : - Mention : -**

Three ways to conserve fossil fuel.

**(C) : - What happen if : -**

Charge of batteries of remote controlled toy car run out.



<b>Model Exam</b> 15	Dakahlia Governorate	Science Primary Four	Time : 1½ Hours
	Educational Directorate	2 <sup>ND</sup> Term May 2025	توجيه عام العلوم لغات
	نموذج امتحان الفصل الدراسي الثاني / مايو 2025 / الصف الرابع الابتدائي ((الاجابة في نفس الورقة / صفحة واحدة))		

**Answer each of the following questions**

**First Question : - (A) : - Complete the following sentence : -**

1. The remains of plants are converted to coal under the effect of ..... and ..... underground.

**(B) : - Compare between : -**

P.O.C	Coal	Charcoal
Type of fuel	.....	.....

P.O.C	Delta	Sand dunes
Place of formation	.....	.....

**Second Question : - (A) : - Write the scientific term : -**

1. Any substances which produce thermal energy on burning.  
( ..... )
2. The movement of sediments from one place to another.  
( ..... )

**(B) : - Give one example for each of the following : -**

1. Renewable resources. ( ..... )
2. Mechanical weathering. ( ..... )
3. Wasted energy in some devices. ( ..... )

**Third Question : - (A) : - Choose the correct answer : -**

- 1- Increasing the amount of .. gas in the air causes global warming.  
a. carbon dioxide      b. oxygen      c. water vapor      d. nitrogen



2-Clouds are formed due to the ..... then ..... of water in rivers and seas.

- a. evaporates      b. condenses      c. freezing      d. a and b

3-The plant converts ..... energy into ..... energy in the form of sugars

- a. electrical – light      b. light – chemical  
c. light – sound      d. chemical – light

**(B) :- Give a reason :-**

1. Rusting of iron of some rocks.

.....  
.....  
=====

**Fourth Question :- (A) :- put ( ✓ ) or ( X ) :-**

1. Canyon is formed by wind. ( )  
2. In greenhouse the radiant energy from sun convert to electric energy. ( )

**(B) :- Classify :-**

plants roots – iron rust – formation of limestone caves – movement of wind

Mechanical weathering	Chemical weathering
.....	.....
.....	.....

**(B) :- What happens when :-**

1. The concave mirror used in cooking.

.....  
.....  
=====



Model Exam 16	Dakahlia Governorate	Science Primary Four	Time : 1½ Hours
	Educational Directorate	2 <sup>ND</sup> Term May 2025	توجيه عام العلوم لغات
	الصف الرابع الابتدائي / مايو 2025 / الفصل الدراسي الثاني / نموذج امتحان ((الاجابة في نفس الورقة / صفحة واحدة))		

**Answer each of the following questions**

**First Question : - (A) : - Complete the following sentence : -**

1. The outputs in hair dryer are ..... and ..... energies.

**(B) : - Give reason : -**

1. Valleys have different shapes.

2. The waves cause the beach erosion.

**(C) : - Mention : -**

1. Two factors that affect on the Earth's surfaces.

2. The causes of air pollution.

**Second Question : - (A) : - Write the scientific term : -**

1. Rain that formed by combination carbon dioxide with water vapor of air. ( ..... )

**(B) : - What happen if : -**

1. Making deforestation.

2. Rocks are broken into small pieces.



3. A river stream enters a sea.

**(B) : - Show the energy path way from input to output in radio :-**

**Third Question : - (A) : - put ( √ ) or ( X ) :-**

1. Rivers cause less erosion of rocks than small streams. ( )
2. All canyons must have V-shape. ( )

**(B) : - Give Reason : -** 1. Iron in rocks may rust.

2. You feel heat when you hold your hand near to light bulb.

**(C) : - Determine the causes of global warming :-**

**Fourth Question : - (A) : - Choose the correct answer :-**

1. Coastal rocks are formed by ..... period of time. (Long - short)
2. Wind is from ..... energy resources. (renewable - non renewable)

**(B) : - Compare between :-**

1. Biofuel and Fossil fuel (according to type of energy resource).

**(C) : - What happen if :-**

1. Lichens growing on rocks produce acids.



<b>Model Exam</b> <b>17</b>	Dakahlia Governorate	Science Primary Four	Time : 1½ Hours
	Educational Directorate	2 <sup>ND</sup> Term May 2025	توجيه عام العلوم لغات
	نموذج امتحان الفصل الدراسي الثاني / مايو 2025 / الصف الرابع الابتدائي ((الاجابة في نفس الورقة / صفحة واحدة))		

**Answer each of the following questions**

**First Question : -**

**(A) : - Complete the following sentences : -**

1. Formation of limestone caves is an example of ..... weathering.
2. When you rub your hands together, the ..... energy is converted into ..... energy.
3. In any energy chain, some of the energy is wasted in the form of .....
4. Dams control the flow of ....., that causes the increase of the ..... energy of water.

**(B) : - Cross out the odd word : -**

Wood – Charcoal – Wood chips – Oil. ( ..... )

**Second Question : - (A) : - put ( ✓ ) or ( X ) : -**

1. The amount of oil on Earth is limited. ( )
2. Energy may be destroyed inside different devices. ( )
3. Both canyons and valleys often have river in their bottom. ( )
4. Deposition process never changes the shape of the land. ( )

**(B) : - What happen when : -**

Sunlight falls on solar panels.

.....

.....

.....

=====



**Third Question : - (A) : - Write the scientific term : -**

1. A type of electrical energy generated by water turbines in dams.  
( ..... )
2. The liquid that stores chemical energy and it is used to move cars.  
( ..... )
3. A fuel that is produced from remains of dead animals and plants under the earth's surface.  
( ..... )
4. A mill that is turned by water flow.  
( ..... )

**(B) : - Correct the under line word : -**

1. Plants roots help in the formation of rocks. ( ..... )

**Fourth Question : -**

**(A) : - Choose from column (B) that suits column (A) : -**

A	B
1. Water	a. can made in few hours from sand particles on seashores.
2. Acid rain	b. is deep valley carved by flowing water.
3. Canyon	c. is a liquid renewable resource of energy.
4. Sandcastle	d. is formed when carbon dioxide gas combines with water in the air.

1. .... 2. .... 3. .... 4. ....

**(B) : - Give reason : -** Iron in rocks may rust.

.....

.....

.....

=====



Model Exam 18	Dakahla Governorate	Science Primary Four	Time : 1½ Hours
	Educational Directorate	2 <sup>ND</sup> Term May 2025	توجيه عام العلوم لغات
	نموذج امتحان الفصل الدراسي الثاني / مايو 2025 / الصف الرابع الابتدائي (الاجابة في نفس الورقة / صفحة واحدة)		

**Answer each of the following questions**

**First Question : - (A) : - put ( √ ) or ( X ) : -**

1. Energy may be destroyed inside different devices. ( )

**(B) : - Give reason : -**

1. Iron inside rock may be rust.

**(C) : - Correct the underline word : -**

1. Delta are formed by weathering process. ( ..... )

**Second Question : - (A) : - Choose the correct answer : -**

1. In water turbines ..... energy of water is changed into electrical.  
a. Light      b. kinetic      c. thermal      d. potential

**(B) : - What happen when : -**

1. You burn piece of wood. (According to changes of energy).

2. The amount of carbon dioxide increase in the atmosphere.



**Third Question : -**

**(A) : - Write the following words in the blanks to correctly identify each landform : -**

(Canyon – sand dunes – river – wind)

1. .... are deep valleys with steep sides.
2. .... Are hills that are made of sand.
3. .... are often what cause the formation of both valley and canyon.
4. .... and sand work together as force of erosion in the desert

**(B) : - Cross out the odd word : -**

1. Gasoline - coal - wood - natural gas. (.....\*)
- =====

**Fourth Question : -**

**(A) : - Write the scientific term : -**

1. The energy produced from playing guitar. (.....\*)
2. The process by which sediment lay down after its erosion. (.....\*)
3. It used to convert wind energy into electrical energy. (.....\*)

**(B) : - Trace the energy chain : -**

1. .... produce light energy used by plants converted trees into ..... energy.
- =====



<b>Model Exam</b> 19	Dakahlia Governorate	Science Primary Four	Time : 1½ Hours
	Educational Directorate	2 <sup>ND</sup> Term May 2025	توجيه عام العلوم لغات
	نموذج امتحان الفصل الدراسي الثاني / مايو 2025 / الصف الرابع الابتدائي ((الإجابة في نفس الورقة / صفحة واحدة))		

**Answer each of the following questions**

**First Question : -**

**(A) : - Choose from column (B) that suits column (A) : -**

A	B
1. Water	a. Generates electricity by using solar energy.
2. Law of conservation of energy	b. Energy doesn't destroy, nor create from nothing.
3. Canyon	c. Is steep landform and formed due to the power of flowing water erosion.
4. Solar panels	d. Is a renewable resource of energy.

1. .... 2. .... 3. .... 4. ....

**(B) : - Complete the following sentences : -**

1. Wood and ..... are examples of biofuel.
2. The electric fan converts electrical energy into ..... energy.
3. Global warming causes the rise of ..... on Earth.

**Second Question : -**

**(A) : - Write the scientific term : -**

1. They are lowland areas that have gentle sloped sides.  
( ..... )
2. A mill that is turned by wind flow. ( ..... )
3. It is the output energy that does not help the device do the function for which it was designed. ( ..... )



**(B) : - Classify the following factors that cause weathering in the table below : -**

1. Wind.

2. Acids

3. Oxygen gas:

4. Temperature

Mechanical weathering	Chemical weathering
.....	.....
.....	.....

**Third Question : - (A) : - put ( √ ) or ( X ) : -**

1. Canyons are special types of valleys that have steep sides. ( )
2. A generator changes the kinetic energy into electrical energy. ( )
3. Delta is formed by the effect of the weathering process only. ( )

**(B) : - What happens if : -**

1. The amount of carbon dioxide gas increases in the atmosphere.

**Fourth Question : - (A) : - What happens : -**

1. When blades of wind turbines rotate faster.

2. To the changes of energy when you turn on the television.

**(B) : - Write the scientific term : -**

1. Gas react with iron forming rust. ( ..... )



<b>Model Exam</b>  <b>20</b> 	Dakahlia Governorate	Science Primary Four	Time : 1½ Hours
	Educational Directorate	2 <sup>ND</sup> Term May 2025	توجيه عام العلوم لغات
	نموذج امتحان الفصل الدراسي الثاني / مايو 2025 / الصف الرابع الابتدائي ((الاجابة في نفس الورقة / صفحة واحدة))		

**Answer each of the following questions**

**First Question : - (A) : - Complete the following sentences : -**

1. The shape of coastal rocks is affected by the force of ..... and wind.
2. Water flow through turbines in dams to generate ..... energy.
3. .... includes grass, charcoal and liquid fuel.

**(B) : - Give reason : -**

1. Water plays an important role in the formation of limestone caves.

**(C) : - Write the scientific term : -**

1. The main source of energy on the earth surface. ( ..... )

**Second Question : -**

**(A) : - Correct the underlined word : -**

1. Carbon dioxide gas in the air reacts with the iron of some rocks forming iron rust. ( ..... )

**(B) : - Classify the following factors that cause weathering in the table below : -**

1. Wind.
2. Acids
3. Oxygen gas.
4. Temperature

Mechanical weathering	Chemical weathering
.....	.....
.....	.....

**(B) : - put ( √ ) or ( X ) : -**

1. Delta is formed by the effect of the weathering process only. ( )
2. We have to conserve all forms of fuel. ( )
3. Machines make our life more easier. ( )



**Third Question : - (A) : - Choose the correct answer : -**

1. When you use the hand bell, the ..... energy changes into sound energy.

a- light      b- thermal      c- kinetic      d- electrical



2. Extreme heat and pressure under the earth's surface has an important role in forming .....

a- wood      b- wind      c- fossil fuel      d- biofuel

3. From factors of mechanical weathering .....

a- oxygen      b- acid rain      c- temperature      d- acid of lichens

**(B) : - Complete the following table : -**

	Used energy	Produced energy
1- Solar panels 	.....	.....
2- Wind turbines 	.....	.....

**Fourth Question : - (A) : - put ( √ ) or ( X ) : -**

1. Canyons are special types of valleys that have steep sides. ( )

2. A generator changes the kinetic energy into electrical energy. ( )

3. Delta is formed by the effect of the weathering process only. ( )

**(B) : - What happens if : -**

1. The amount of carbon dioxide gas increases in the atmosphere.

**(C) : - Determine : -**

2. The input and output energy in a green house.

حمل الآن

مجانا وحصريا

# امتحانات رقم (4)

## الترم الثاني





امتحان الفصل الدراسى الثانى / مايو ٢٠٢٤ / الصف الرابع الابتدائى  
( الاجابة فى نفس الورقة / صفحة واحدة )

=====

Answer each of the following questions

First Question : -

(A) : - Complete the following sentences : -

( deposition - Hydroelectricity - thermal - lichen )

- 1- Fuel is a source of ..... energy.
- 2 - Nile River delta in Egypt is formed due to .....Process.
- 3 - .....is a type of electric energy generated by water turbines in dams.
- 4 - ..... produced acids on rocks that dissolve its minerals.

(B) : - Give reason : -

When you rub your hands, you feel warm ?

.....  
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Second Question : -

( A ) : - Put ( √ ) or ( X ) : -

- 1 - Energy may be destroyed inside different devices. (
- 2 - When iron in rock rusts, the rock becomes more stronger. (
- 3 - Most of energy chains start with the sun. (
- 4 - In the soap dispenser, potential energy changes into kinetic energy. (

( B ) What happen if : The sun light falls on solar panels .

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Third Question : -

(A) : - Choose from column (B) that suits column (A) : -

A	B
1- Acid rain	A- Usually has a triangular shape
2- Mars rover curiosity	B- It is formed when carbon dioxide gas combines with water in air.
3- Delta	C- Use the energy of the sun to heat water in homes.
4- Solar water heater	D- A robotic vehicle designed to explore the surface of Mars is

1- ..... 2- ..... 3- ..... 4- .....

( B ) : - Cross out the odd word : -

1 - Wind - Oxygen - Plant roots - Temperature . (.....)

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..... \* رقم الجلوس /



امتحان الفصل الدراسي الثاني / مايو ٢٠٢٤ / الصف الرابع الابتدائي

((الاجابة في نفس الورقة / صفحة واحدة))

=====

Answer each of the following questionsFirst Question : -( A ) : - Put ( √ ) or ( X ) : -

- 1- A toy car can continue moving after its battery runs out . ( )
- 2- Coal , oil and natural gas are used to produced electricity . ( )
- 3- Water turbines generate electricity by the Wind blow . ( )
- 4- The surface of the Earth never changes over time . ( )

(B) : - Give reason : -Generators are important in electric power station ?

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Second Question : - ( A ) : - Choose the correct answer : -

- 1- Sand is formed due to breaking down of .....  
a- plastic      b- glass.      c- rocks      d- Wood
- 2- When the force of wind blowing ..... the sand travels for a longer distance .  
a- Decrease      b- Increase      c- not change      d- becomes zero
- 3- Both of hair dryer and electric water kettle produce ..... Energy.  
a- Electric      b- Potential      c- Chemical      d- Thermal

4- All the following are renewable resources of energy except ....

a- Natural gas      b- Sun      c- Wind      d- Water

( B ) ; - What happen when :-

You burn a piece of wood . ( according to changes of energy )

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Third Question :-

( A ) ; - Write the scientific term :-

1- It is the process of laying down of sediments after its erosion .

( ..... )

2- Landform formed by erosion and deposition of sand in sandy desert Environment . ( ..... )

3- The wasted energy when using a mobile phone for a long time .

( ..... )

4- Any substance produce thermal energy when it is burned .

( ..... )

( B ) Look at the opposite figure then mention :-

1- Input energy is .....

2- Output energy is .....



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امتحان الفصل الدراسي الثاني / مايو ٢٠٢٤ / الصف الرابع الابتدائي  
(الاجابة في نفس الورقة / صفحة واحدة)

=====

Answer each of the following questions

First Question : -

(A) : - Complete the following sentences : -

(Solar panels - Weathering - Thermal - Canyon)

- 1- ..... is a deep valley carved by flowing water.
- 2- We need .....energy for cooking food and warming houses.
- 3- ..... are used to generate electricity from solar energy.
- 4- The process in which rocks are broken down into smaller particles is called .....

(B) : - Give reason : - Iron inside rocks may rust.

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Second Question : -

(A) : - Put ( √ ) or ( X ) : -

- 1- Wind is a non-renewable energy resource. (    )
- 2- Most energy chains start with the sun. (    )
- 3- There is a stored chemical energy inside the food we eat. (    )
- 4- Coal is formed from the sea animals' remains. (    )

( B ) : - What happen when : -

You turn on a television (according to the change of energy).

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.....  
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Third Question : -

( A ) : - Choose the correct answer : -

- 1- Curiosity Rover is designed to explore .....  
(Earth - Mars - Sun - Moon).
- 2- Lichens produce ..... on rocks.  
(Oxygen - Acids - Water - Rain)
- 3- The output energy when playing drums is ..... energy.  
(Chemical - Light - Sound - Potential)
- 4- Sand is formed due to breaking down of .....  
(Glass - Wood - Rocks - Plastic).

( B ) : - Cross out the odd word : -

Gasoline - Coal - Wood - Natural Gas. ( ..... )

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Second Question : - (A) : - Write the following words in the blanks to correctly identify each landform : -

(Canyons - sand dunes - river - wind)

- 1- ..... are deep valleys with steep sides.
- 2- ..... are hills that are made of sand.
- 3- ..... are often what causes the formation of both valleys and canyons.
- 4- ..... and sand work together as forces of erosion in the desert.

(B):- Give reason:-Farmers must decrease the use of pesticides

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Third Question : - ( A ) : - Put ( √ ) or ( X ) : -

- 1-The force of gravity pulls rocks down the mountain sides causing its erosion. (
- 2-You can see the reshaping of Earth's surface during its occurrence.(
- 3-When the kinetic energy of wind that is applied to the wind turbines increases, they produce more electricity. (
- 4-Both solar panels and natural gas are renewable energy resources. (

( B ) : - What happen when : -

The amount of carbon dioxide increases in the atmosphere.

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	رقم الجلوس / .....



امتحان الفصل الدراسي الثاني / مايو ٢٠٢٤ / الصف الرابع الابتدائي

((الاجابة فى نفس الورقة / صفحة واحدة))

=====

Answer each of the following questions

First Question : -

( A ) : - Choose the correct answer : -

- 1- Sand is formed due to breaking down of .....  
a. glass                      b. wood                      c. rocks                      d. plastic
- 2-Input energy when using the hair dryer is ..... energy  
a. electrical                      b. light                      c. potential                      d. kinetic
- 3- In water turbines ..... energy of water is changed into electrical  
a. light                      b. kinetic                      c. thermal                      d. potential
- 4- Rusting of iron forming rocks is an example of .....  
a. mechanical energy                      b. weathering by wind  
c. deposition in rivers                      d. chemical weathering

(B) : - Give reason : - Hydroelectric dams are built on river.

.....  
.....  
.....

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Second Question : -

( A ) : - Put ( √ ) or ( X ) :-

- 1-Canyons are formed in a short period of time .
- 2-Both coal and wood produce thermal energy when they are burned.

3-Most of energy chains starts with the sun .

4-Charcoal is formed from decomposition of remains of ancient plants.(

=====

( B ) : - What happen when : -

You put your hands near a lighted lamp .

.....

.....

.....

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Third Question : -

( A ) : - Write the scientific term : -

1-The energy produced from playing guitar . ( ..... )

2-The process by which sediments lay down after its erosion .

( ..... )

3-A mill that is turned by wind flow. ( ..... )

4-A type of mirrors that is used to collect and focus sunlight onto metal

pots . ( ..... )

(B) : - Correct the under line : -

Deltas are formed by weathering process . ( ..... )

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((الاجابة في نفس الورقة / صفحة واحدة))

Answer each of the following questionsFirst Question : -( A ) : - Choose the correct answer : -

(1) ..... is the process that occurs when sand or rocks move from one place to another.

(Weathering - Erosion - Deposition)

(2) The electricity generated from the kinetic energy of water is called ..... energy (chemical - thermal - hydroelectric)

(3) The light energy of sun occurs inside trees in the form of ..... energy (Electrical - Chemical - Thermal)

(4) .....s a low area between two mountains.(valley - delta - river)

( B ) : - Write the scientific term : -

A wetland formed as a result of the deposition of sediments carried by flowing water. ( ..... )

Second Question : -(A) : - Complete the following sentences : -

(1) Fossil fuels are ..... energy resources.

(2) The energy generated by the device as a result of a process called .....

(3) ..... is special kind of valley.

(4) Windmills rotate using kinetic energy of .....

( B ) : - Weathering has many factors causing it.( Mention these factors )

.....  
.....  
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=====

Third Question : -

( A ) : - Put (  $\sqrt{\phantom{x}}$  ) or ( X ) : -

- (1) Burning fossil fuels does not harm the Earth. ( )
- (2) When the batteries run out of charge, they can be replaced with others or recharged. ( )
- (3) Wind is not a factor of erosion. ( )
- (4) Rationalizing energy consumption reduces pollution. ( )

( B ) : - Trace the energy chain : -

.....  $\xrightarrow{\text{Produce}}$  Light energy used by plants

Convert trees into ..... / .....

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 ((الاجابة في نفس الورقة / صفحة واحدة))

=====

Answer each of the following questions

First Question : - ( A ) : - Choose the correct answer : -

- 1- Batteries store energy inside them .....(electrical - kinetic - chemical
- 2- ..... directs the sun's rays to heat metal utensils and cooking food inside them (solar heaters - concave mirrors - gas ovens).
- 3- .....are examples of biofuels ( Wood - gasoline - natural gas)
- 4- Radiant energy is the energy released by .....(sun - wind - water)

( B ) : - What happen when : -

flowing river water meets still sea water?

.....  
 .....  
 .....

=====

Second Question : -

( A ) : - Put ( √ ) or ( X ) : -

- 1- The canyon is characterized by steep sides. ( )
- 2- Oil and water are resources that humans can use to generate energy. ( )
- 3- As the water falls from top to bottom, gravitational potential energy is transformed into kinetic energy. ( )
- 4- Most energy chains begin with the energy of the moon. ( )

( B ) : - Write the scientific term : -

A natural material that is consumed at a faster rate than it can be renewed. ( ..... )

=====

Third Question : -

(A) : - Complete the following sentences : -

- 1- When a gas ..... reacts with water in the air, acid rain is formed
- 2 The formation of the Nile River Delta resulted from ..... process.
- 3- In a hair dryer, ..... energy is wasted energy
- 4- The Curiosity rover was designed for exploration of .....

( B ) : - Determine the type of weathering : -

Some rocks were subjected to some type of weathering and changed their color .

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..... / اسم الطالب  
..... / رقم الجلوس



امتحان الفصل الدراسى الثانى / مايو ٢٠٢٤ / الصف الرابع الابتدائى  
 ((الاجابة فى نفس الورقة / صفحة واحدة))

Answer each of the following questions

First Question : - ( A ) : - Choose the correct answer : -

- 1..... is the main source of energy on the Earth's surface.  
 a. oil.      b. gasoline.      c. natural gas.      d. the sun.
2. When you use the hand bell, the kinetic energy changes into ..... energy.  
 a. light      b. thermal      c. sound      d. electric
3. The steep valleys that are formed due to the flowing water erosion are called .....  
 a. canyons.      b. sand dunes.      c. hills.      d. delta.
4. Solar panels can be used to operate all the following, except .....  
 a. calculator      b. gas oven.      c. irrigation equipment.      d. street light.

(B) : - Give reason : - Egypt established modern wind turbines ?

.....  
 .....

Second Question : - ( A ) : - Put ( √ ) or ( X ) : -

1. Water can cause the two types of weathering. (    )
2. It takes several days for a spacecraft to reach Mars. (    )
3. As the speed of the car increases, the amount of used fuel decreases.(    )
4. Rivers store kinetic energy. (    )

(B) Look at these electric devices, then complete the sentences



Device 1



Device 2



Device 3

1-Noise from devices number ..... and ..... is wasted energy because sound doesn't help the devices do their functions.

2-Kinetic energy is produced in devices number ..... and .....

=====

Third Question : -

(A) : - Choose from column (B) that suits column (A) : -

A	B
Wadi Nakhr	a. is a fossil fuel
Valley	b. has gently-sloped sides .
Curved mirror	c. is a black and brown canyon in Oman
Acid rain	d. is one of the chemical weathering
	e. is used in cooking food .

1..... 2..... 3..... 4.....

(B) Give two examples of biofuel : -

1.....

2.....

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\* رقم الجلوس / .....



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(( الاجابة في نفس الورقة / صفحة واحدة ))

=====

Answer each of the following questions

First Question : - ( A ) : - Choose the correct answer : -

1-Which of the following energy forms isn't produced from the Sun?

- |                   |                       |
|-------------------|-----------------------|
| a- Thermal energy | b- Light energy       |
| c- Kinetic energy | d- Radiation energy . |

2-..... is considered one of the resources that we consume at faster rate than it is formed.

- |              |                     |
|--------------|---------------------|
| a- The wind  | b- The solar energy |
| c- The water | d- The fossil fuels |

3-Steep valleys formed due to flowing water erosion are called .....

- |                |           |
|----------------|-----------|
| a-canyons.     | b- hills. |
| c- sand dunes. | d- delta. |

4-Rusting of a statue is an example of the action of ..... process

- |               |                          |
|---------------|--------------------------|
| a. deposition | b. mechanical weathering |
| c. erosion    | d. chemical weathering.  |

(B) : - Give reason : -

When you rub your hands, you feel warm ?

.....  
.....  
.....

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Second Question : - ( A ) : - Put ( √ ) or ( X ) : -

Energy is neither created nor destroyed but it can be changed.	(.....)
When water freezes, its volume decreases.	(.....)
The moon is the main source of both biofuel and fossil fuel..	(.....)
Deltas are formed by erosion processes	(.....)

( B ) : - What happen when : -

Decomposition of marine animals under the Earth's surface .

.....  
 .....  
 .....  
 =====

Third Question : - ( A ) : - Match : -

1. the breaking down of large rocks into small particles (sediments).	(.....) a- erosion
2. A process in which water vapor changes into water forming clouds.	(.....) b- fuel
3. any substance that produces thermal energy when it is burned	(.....) c- condensation
4. the movement of sediments from one place to another,	(.....) d- weathering

( B ) : - Cross out the odd word : -

Charcoal - wood - liquid fuel - natural gas. ( ..... )

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Dakahlia Governorate Science Primary Four

Time : 1 ½ hours

Educational  
Directorate

Second Term exam May  
2024

توجيه عام العلوم لغات

امتحان الفصل الدراسي الثاني / مايو ٢٠٢٤ / الصف الرابع الابتدائي

(( الاجابة في نفس الورقة / صفحة واحدة ))

=====

Answer each of the following questions

First Question : -

( A ) : - Choose the correct answer : -

1. the output energy when using the hair dryer is the ..... energy

a) electrical                      b) potential                      c) light                      d) thermal

2. Wood is considered as .....

a) biofuel                      b) fossil fuel                      c) liquid fuel                      d) gaseous fuel

3. When a river meets a sea or an ocean, a landform known as

..... Is formed.

a) mountain                      b) volcano                      c) canyon                      d) delta

4. The steps of forming fossil fuel, don't include ..... of the remains of the living organisms

a) cooling                      b) burring                      c) heating                      d) decomposing

( B ) : - What happen when : -

lichens grow on rocks .

.....

.....

.....

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Second Question :-

( A ) :- Put ( √ ) or ( X ) :-

1. canyons are special types of valley that have steep sides. ( )
2. When iron in rocks rusts, the rock becomes more stronger. ( )
3. Sand travels for long distance when wind blows strong. ( )
4. You need gasoline to move a bicycle. ( )

( B ) :- Cross out the odd word :-

wind - Gasoline - coal - natural gas. ( ..... )

=====

Third Question :-

( A ) :- Complete the following sentences :-

( weathering - changed - sun - thermal )

- 1-The energy can be ..... from one form to another
- 2-Fuel is used as a source of ..... energy
- 3-..... Is the breaking down of rocks into smaller pieces
- 4-Most of energy chain start with the .....

( B ) :- Mention two factors which determine the shape of a formed valley .

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امتحان الفصل الدراسي الثاني / مايو ٢٠٢٤ / الصف الرابع الابتدائي  
(الاجابة في نفس الورقة / صفحة واحدة)

=====

Answer each of the following questions

First Question : - ( A ) : - Choose the correct answer : -

1-Which of the following are preferred natural resources to generate a clean energy.....

- a) coal and natural gases.                      b) tree and dry herbs.  
c) river water and wind.                      d) water, coal and wind.

2-The idea of design and work of the robot that explores the surface of Mars planet depends on the idea of transforming .....

- a) electric energy to kinetic energy.    b) potential energy to kinetic energy.  
c) light energy to potential energy.    d) kinetic energy to electric energy.

3- ..... is considered one of the resources that we consume at faster rate than it is formed.

- a) solar energy              b) water.              c) wind.              d) fossil fuel.

4- Steep valleys that formed by flowing water erosion are called .....

- a) hills.              b) sand dunes.              c) canyons.              d) delta.

( B ) : - Classify the following factors in the following table .

1- Plants root.

2- Acids from lichens.

3- Temperature.

4- Oxygen gas.

Chemical weathering factors	Mechanical weathering factors
.....	.....
.....	.....

Second Question :- ( A ) :- Put ( √ ) or ( X ) :-

- 1- acid rains don't have an effect on both soil and the water of lake. ( )
- 2- sand Dunes are landforms which are formed due to the wind erosion and deposition. ( )
- 3- both of modern water turbines and modern wind turbines are used to generate electricity. ( )
- 4-delta may be formed by the effect of the weathering process only. ( )

( B ) :- complete the following table :-

Device	Input energy	Output energy
Generator	.....	.....
Solar water heater	.....	.....

Third Question :-

(A) :- Complete the following sentences :-

( light - fossil fuel - gravity - biofuel - wind - thermal )

- 1-The force that pulls down broken rocks at mountain sides is called .....
- 2- The shape of costal rocks is affected by the force of ..... And water
- 3- ..... includes grass , charcoal and liquid fuel .
- 4- ..... energy is wasted energy in the electric lamp and isn't help to do its function

( B ) :- Give reason :- Hydroelectric dams are built on rivers ?

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((الاجابة فى نفس الورقة / صفحة واحدة))

=====

Answer each of the following questionsFirst Question : - ( A ) : - Choose the correct answer : -

1-Lichens produce ..... on rocks that dissolve minerals found in these rocks .

A) oxygen      B) acids      C) water      D) rain

2-All of the following are forms of fuel, except .....

A) natural gas      B) gasoline      C) coal      D) glass

3-The formation of canyons takes .....

few minutes      B) few hours      C) few days      D) many years

4-The energy source in a toy car is .....

A) engine      B) wires      C) battery      D) wheels

(B) : - Give reason : -Iron in rocks may rust ?.....  
.....

=====

Second Question : - ( A ) : - Put ( √ ) or ( X ) : -

1- When iron in rock rusts, the rock becomes more stronger. ( )

2- We have to conserve all forms of fuel . ( )

3- both coal and wood produce thermal energy when they are burned . ( )

4- Wind is a nonrenewable energy resource . ( )

( B ) : - There are many types of sediments. Mention 2 types of them .

.....  
.....  
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Third Question : -

(A) : - Complete the following sentences : -

( decreases - rocks - thermal - kinetic )

1-The origin of sand is the breaking down of some types of

..... .

2-In the washing machine electrical energy converted into

..... energy .

3-When the force of wind ..... , the sand can't travel for a long distance .

4-We need ..... energy for cooking food and warming houses .

( B ) : - What happen when : -

The wind that is carrying sand particles hits a big rock .

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امتحان الفصل الدراسي الثاني / مايو ٢٠٢٤ / الصف الرابع الابتدائي

((الاجابة في نفس الورقة / صفحة واحدة))

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Answer each of the following questionsFirst Question : - ( A ) : - Choose the correct answer ; -

1-All of the following are processes that can change the earth's surface except .....

a)digestion.                      b) erosion.                      c) weathering.                      d) deposition

2-Lichens produce ..... on rocks that dissolve minerals found in these rocks.

a)water                      b) oxygen                      c) acids                      d) rain

3-Both of hair dryer and electrical water kettle produce .....energy.

a)chemical                      b) thermal                      c) light                      d) potential

4-Water turbine can generate more electricity by increasing the ..... energy of water that is stored behind dams.

a)kinetic                      b) potential                      c) thermal                      d) electrical

(B) : - Give reason : -Formation of delta ?

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Second Question : - ( A ) : - Put (  $\sqrt{\quad}$  ) or ( X ) : -

- 1-Deposition process never change the shape of land. ( )
- 2-We have to conserve all forms of fuel. ( )
- 3-Water can cause the both types of weathering. ( )
- 4-In soap dispenser potential energy changes into kinetic energy. ( )

( B ) : - What happen when : -

Radiant energy that comes from the sun enters the green houses.

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Third Question : -

(A) : - Complete the following sentences : -

- 1- During ..... process, rocks are broken down or weathered away.
- 2- Toy cars depend on ..... as a source of electric energy.
- 3- The energy can be ..... from one form to another.
- 4- ..... and ..... are examples of fossil fuel.

( B ) : - Cross the odd word : -

Wood - Natural gas - Coal - Oil . ( ..... )

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((الاجابة في نفس الورقة / صفحة واحدة))

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Answer each of the following questions

First Question : - ( A ) : - Choose the correct answer : -

1-The produced energy from radio that reflects its main function is energy.

a- Electric.                      b- Sound.                      c- Light                      d- Chemical. .

2-Dissolving metals forming rocks is an example for .....

a. mechanical weathering.                      b- erosion by wind.  
c. deposition in rivers.                      d- chemical weathering.

3-Steep valleys formed due to flowing water erosion are called .....

a-canyons.                      b. sand dunes.                      c. hills.                      d. delta.

4-In our daily life we use devices which depend on energy forms. Which of the following uses is true ?

a-Computer depends on kinetic and electric energy.  
b-Ceiling fan depends on electric energy.  
c-The function of television depends on the hydroelectric energy.  
d-Cell phones depend on potential and kinetic energy for operation

( B ) : - What happen when : -

Increasing Carbon dioxide ratio in the atmosphere.

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Second Question :-

(A) :- Complete the following sentences :-

- 1- .....is the largest canyon in the world.
- 2-The produced energy from flowing water from waterfalls and dams is called .....
- 3- ..... s a renewable source of energy.
- 4-The movement of small particles from one place to another is called .....

( B ) :- what are the different forms of energy involved when a light bulb is turned on?

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Third Question :- ( A ) :- Put (  $\sqrt{\quad}$  ) or ( X ) :-

- 1-sometimes the converted energy does not help do what the device is designed to do. ( )
- 2-The formation of sand dunes in western desert due to the movement of waves. ( )
- 3-Generator changes the kinetic energy into electrical energy. ( )
- 4-Deposition is a breaking down of rocks into smaller pieces. ( )

(B) :- Give reason :-

Lichens considered as one of the causes of chemical weathering ?

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..... / رقم الجلوس



امتحان الفصل الدراسي الثاني / مايو ٢٠٢٤ / الصف الرابع الابتدائي

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Answer each of the following questionsFirst Question : - ( A ) : - Choose the correct answer : -1-The produced energy from radio that reflects its main function is  
.....energy.

(A) Electric (B) Sound (C) Light (D) Chemical

2- .....is a renewable source of energy.

Coal (B) Natural gas (C) Water (D) Fossil fuel

3-The formation of sand dunes in Eastern Desert in Egypt is due to the  
movement of...

Floods (B) Wind (C) Waves (D) Torrents

4-When a rock's surface is eroded due to weather factors, this indicates  
the occurrence of .....process.

Weathering B) Deposition C) Transfer D) Erosion

(B) : - Give reason : -Coal is considered as a nonrenewable energy resource ?.....  
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Second Question : - ( A ) : - Put ( √ ) or ( X ) : -

1- Energy may destroyed inside different devices. ( )

2- Water can cause the two types of weathering. ( )

3- A solar panel consists of one small solar cell. ( )

4- Most of energy chains start with the moon. ( )

( B ) : - What happen when : -

Oxygen of air reacts with iron of some rocks.

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Third Question : -

(A) : - Complete the following sentences : -

1- Dams control the flow of ..... that causes the increase of the .....energy of water.

2- Nile River Delta in Egypt is formed due to ..... process.

3- In hand bell, kinetic energy is converted into .....energy.

4- .....are deep valleys carved by flowing water.

( B ) : - Cross the odd word : -

Solar water heater - Hand mixer - Solar panel - Greenhouse.

( ..... )

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امتحان الفصل الدراسي الثاني / مايو ٢٠٢٤ / الصف الرابع الابتدائي  
( (الاجابة في نفس الورقة / صفحة واحدة) )

Answer each of the following questions

First Question : - ( A ) : - Choose the correct answer : -

1-Which of the following is a preferred natural resource to generate clean energy?

- a. Oceans and river water                      b. trees and dry herbs  
c. water, coal and oil                            d. coal and natural gas

2- ..... is a renewable source of energy.

- a. coal                  b. natural gases                  c. water                  d. fossil fuel

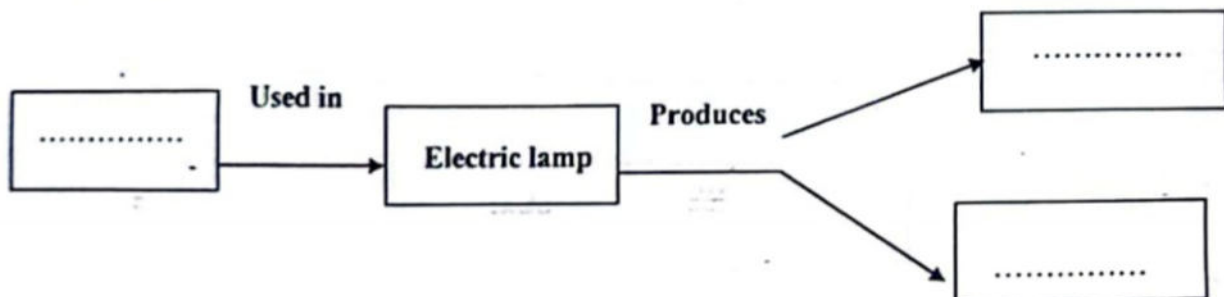
3- what is the process in which the landforms change due to weathering factors?

- a. expansion      b. weathering      c. erosion      d. evaporation

4- the formation of sand dunes in western desert in Egypt is due to the movement of .....

- a. floods      b. winds      c. waves      d. torrents

( B ) : - complete the following model : -



Second Question : - ( A ) : - Put (  $\sqrt{\phantom{x}}$  ) or ( X ) : -

- 1-Light energy isn't produced from the sun. ( )
- 2-The fossil fuels Is considered one of the resources that we consume at a faster rate than it is formed. ( )
- 3-Dissolving metals forming rocks is an example for erosion by wind. ( )
- 4-fuel is used as a source of thermal energy. ( )

(B) : - Give reason : - Formation of sand ?

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Third Question : - ( A ) : - Match : -

1. Water	(.....) a- Generate electricity by using solar energy.
2 Law of conservation of energy	(.....) b- Energy doesn't destroy nor create from nothing.
3. Canyon	(.....) c- Is a steep landform and formed due to the power of flowing water erosion.
4. Solar panels	(.....) d- Is renewable resource of energy.

( B ) : - Write the scientific term : -

- 1.The process by which sediments lay down after its erosion.

( ..... )

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امتحان الفصل الدراسي الثاني / مايو ٢٠٢٤ / الصف الرابع الابتدائي

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First question:      Answer all the following questionsA) Complete the following:-

- 1) Light energy is converted into ----- energy which is stored in the form of sugar inside the trees.
- 2) ----- is used as source of thermal energy in homes and cars.
- 3) ----- are deep valleys carved by flowing water.
- 4) ----- is the process of lying down of sediments after its erosion.

B) What happen when :-      Acidic rain fall on rocks.

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Second question:- A) Put ( √ ) or ( X ) :

- 1) Using solar energy is a way to conserve fossil fuels. (
- 2) Water is a nonrenewable resource that is used to generate hydroelectric.(
- 3) WadiAl-Hitan contains fossils of large skeletons of whales. (
- 4) Sedimentary rocks contain remains of planets and animals so petroleum is formed in it. (

B) What is the role of wind in mechanical weathering?

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Third question:- A) 1) Write the scientific term:-

1) Energy is neither created nor destroyed, but it changes from one form to another [-----]

2) A gas in air combines with iron of some rocks and causes its weakness.  
[-----]

2) Complete the following table:-

Device	Input energy	Output energy
1) Electric heater		
2) Battery in your toy		

B) Give reason:-      Hydroelectric dams are built on rivers.

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# Grade 4

①

## Exam 1:

### Q1: (A)

- 1- thermal
- 2- deposition
- 3- Hydroelectricity
- 4- lichen

(B) due to kinetic energy  
Converts into thermal energy  
by friction between rubbing  
hands.

### Q2: (A):

- 1- X
- 2- X
- 3- ✓
- 4- ✓

(B) the Solar Panels absorb  
solar energy and Converts  
it into electric energy.

### Q3: (A)

- 1- B
- 2- D
- 3- A
- 4- C

(B) Oxygen.

## Exam 2:

### Q1: (A)

- 1- X
- 2- ✓
- 3- ✓
- 4- X

(B) Because when generator  
is turned on, it Converts  
kinetic energy into electric  
energy.

### Q2: (A)

- 1- rocks
- 2- increase
- 3- thermal
- 4- natural Gas

(B) chemical energy changes  
into thermal energy.

### Q3: (A)

- 1- deposition
- 2- (Sand dunes)
- 3- thermal energy
- 4- fuel

(B) 1- kinetic energy  
2- " -- Sound energy

## Exam 3:

### Q1: (A) 1- Canyon 2- thermal

- 3- Solar Panels
- 4- weathering

(B): due to reaction between  
iron Particles and oxygen  
in air.

### Q2: (A) 1- X 2- ✓ 3- ✓ 4- X

(B) electric energy converts  
into sound and light energies

### Q3: (A)

- 1- mars
- 2- acids
- 3- Sound
- 4- rocks

(B) wood

(2)

### Exam(4):

Q1:(A) 1-Sand dunes formation

2-chemical weathering

3-hydroelectric energy

4 kinetic energy

(B) 1- electric energy

2- light, heat/thermal energies

3- hair dryer

4- thermal, kinetic, sound energies.

Q2:(A) 1- Canyons

2-Sand dunes 3-rivers

4- wind

(B) Because it causes soil, air and water pollution.

Q3:(A)

1-✓ 2-X 3-✓ 4-X

(B) it causes increase the earth atmospheric temperature

### Exam 5:

Q1 (A):

1-rocks 2-electrical

3-kinetic 4-chemical weathering

(B) it converts stored potential water energy into kinetic energy that moves turbines that generate electrical energy.

Q2:(A)

1-X

2-✓

3-✓

4-X

(B) the lamp produces light and thermal energies causing warm feeling.

Q3:(A): 1- sound

2-deposition 3-wind mill

4-Concave mirror

(B) deposition.

### Exam 6:

Q1:(A) 1-erosion 2-hydroelectric

3-chemical 4-Valley

(B) delta

Q2:(A) 1-non-renewable

2-out put 3-steep Valley

4-wind

(B) water and wind movement causes weathering by breaking down rocks into small particles

Q3:(A)

1-X

2-✓

3-X

4-✓

(B) sun  
chemical / thermal (Burning)



Exam 7:Q1: (A) 1- Chemical

2- Concave mirror

3- Wood 4- Sun

(B) the river water current deposits the sediments forming delta.

Q2: (A)

1-✓ 2-✓ 3-✓ 4-X

(B) Fossil fuel

Q3: (A): 1- Carbon dioxide

2- deposition 3- Sound

4- mars planet.

(B) chemical weathering.

Exam 8:Q1: (A): 1- the Sun

2- Sound 3- Canyons

4- Gas oven

(B) wind turbines convert the wind kinetic energy into electric energy through generator.

Q2: (A)

1-X 2-X 3-X 4-X

(B) 1- 1, 2

2- 1, 2

Q3: (A)

1-C 2-b 3-e 4-d

(B) 1- wood

2- charcoal or liquid fuel  
(Grass, Corn, wood chips)Exam 9:Q1: (A): 1- Kinetic energy

2- the fossil fuels

3- Canyons 4- Chemical weathering

(B) due to kinetic energy  
converts into thermal energy  
by friction between rubbing  
hands.Q2: (A)

1-✓ 2-X 3-X 4-✓

(B) it converts into oil and  
natural gas.Q3: (A)

1-d 2-c 3-b 4-a

(B) natural gas.

Exam 10:

Q1(A): 1- thermal 2- biofuel  
3- delta 4- cooling

(B) it produces acids that  
dissolves the rock's minerals

Q2(A)

1-✓ 2-X 3-✓ 4-X

(B) wind

Q3(A) 1- changed

2- thermal 3- weathering  
4- sun

(B) 1- erosion

2- weathering

Exam 11:

Q1(A): 1- river water and wind  
2- light energy to potential energy  
3- Fossil fuel 4- Canyons

(B) Chemical weathering  
(Oxygen gas/acids from lichens)  
mechanical weathering  
(plants root / temperature)

Q2(A)

1-X 2-✓ 3-✓ 4-X

(B) input (kinetic / solar)  
output (electric / thermal)

Q3(A): 1- gravity 2- wind  
3- biofuel 4- thermal

(B) it converts the water's  
kinetic energy into electrical  
energy by operating turbines

Exam 12:

Q1(A): 1- acids 2- Glass  
3- many years 4- Battery

(B) due to reaction between  
iron particles and Oxygen  
in air

Q2(A)

1-X 2-✓ 3-✓ 4-X

(B) chemical, mechanical  
sediments.

(\*)

Q3(A) 1- rocks 2- kinetic  
3- decrease 4- thermal

(B) sand particles and wind  
causing weathering of big  
rocks by breaking down it  
into small particles.



### Exam 13:

Q1:(A): 1-digestion 2-acids  
3-thermal 4-Potential

(B) due to erosion and deposition  
of sediments and sand at area  
of meeting river with seas.

Q2:(A) 1-X 2-✓ 3-X 4-✓

(B) it causes warming green  
houses that help plants to  
grow in cold areas.

Q3:(A): 1-erosion 2-Battery  
3-Converts 4-oil, natural  
gas

(B) wood

### Exam 14:

Q1:(A): 1-Sound  
2 chemical weathering  
3-Canyons  
4-Ceiling fan depends on  
electric energy

(B) it causes increase the  
earth's atmospheric  
temperature.

\*Q2:(A) 1-Kali Gandak Gorge  
2-hydroelectric energy  
3-water fall 4-erosion

(B) light and thermal energy

Q3:(A): 1-✓ 2-X 3-✓ 4-X

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(B) Because lichens produces  
acids that react with rock  
particles (dissolve) that breaks  
rocks down into small particles

### Ex 15:

Q1:(A) 1-Sound 2-water  
3-wind 4-weathering

(B) Because Coal is consumed  
at faster rate than it is formed

Q2:(A) 1-X 2-X 3-X 4-X

(B) the iron rusts and rocks  
becomes weaker.

Q3:(A): 1-water 2-Potential  
3-deposition 4-steep valley

(B) Hand mixer

### Exam 16:

Q1:(A): 1-ocean and river water  
2-water 3-erosion 4-wind  
(B) 1-electric 2-light 3-thermal

Q2:(A): 1-X 2-✓ 3-X 4-✓

(B) it is fuel that is formed due to  
burying old living organisms and  
decomposing them over long time.

Q3:(A)

1-d 2-b 3-c 4-a

(B) deposition



# كيفية طباعة صفحات معينة من ملف معين

## مثلا ازاي نطبع الصفحات من صفحة 4 الى صفحة 9



خطوة 1



خطوة 2  
اختيار اسم  
الطابعة  
بتاعتك

خطوة 3  
كتابة الصفحات  
المراد طباعتها  
نكتب رقم 4 ثم  
نكتب الشرطة  
دي - ثم نكتب 9

خطوة 4  
اختيار نوع الورق



خطوة 5  
اختيار A4



خطوة 6